



Surface developments

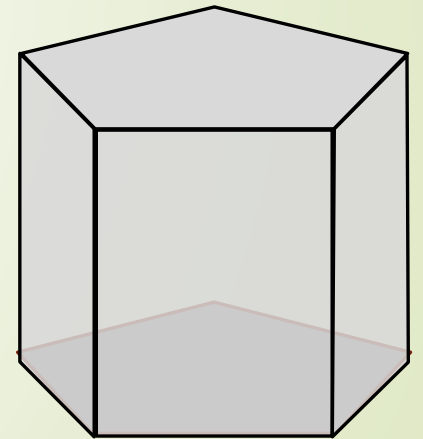
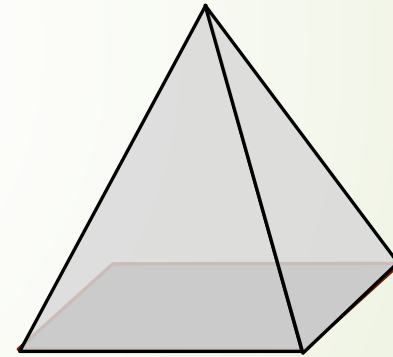
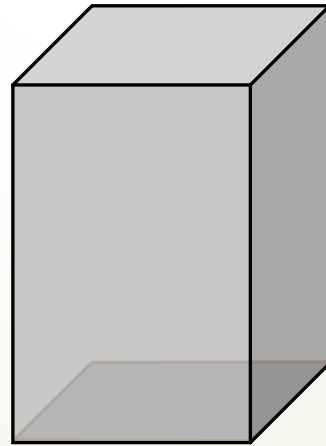
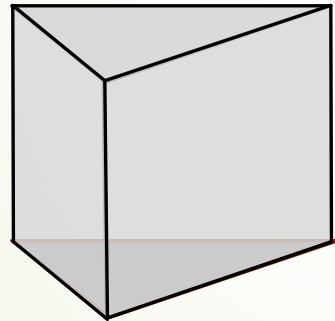
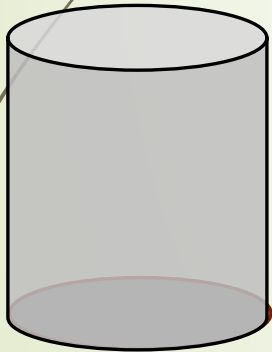
Prisms and pyramids

Grade 10, 11, 12

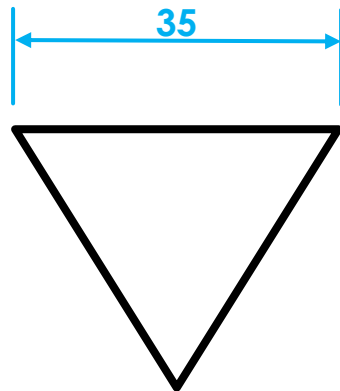
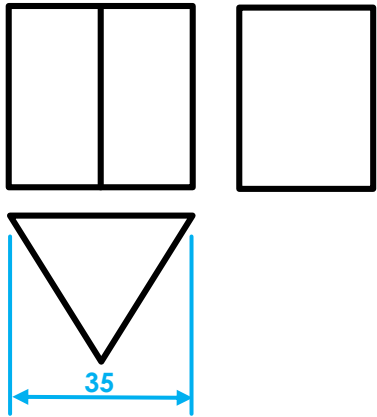
Developed by: PC Viljoen
Senior Educational Specialist for
Engineering Graphics and Design
Free State Province

Application on polygons

- Projecting right regular pyramids, prisms, cones and cylinders from polygons.



Application on polygons



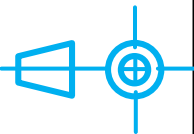
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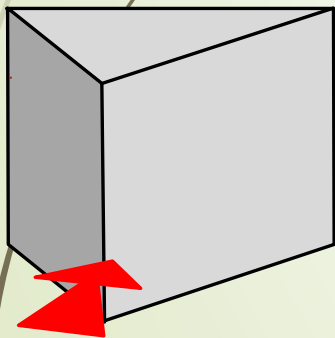
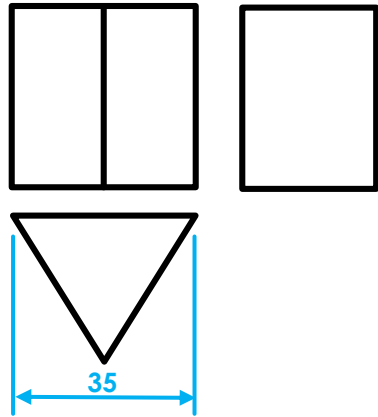
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1. A front view
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4. Develop the surface of the solid

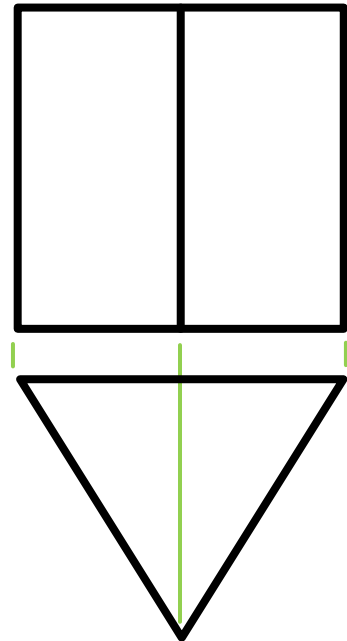


FRONT VIEW

Principles of surface developments



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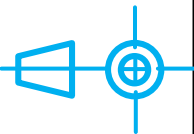
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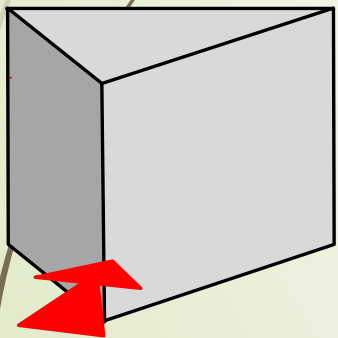
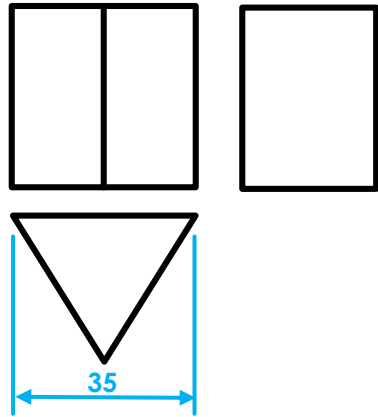
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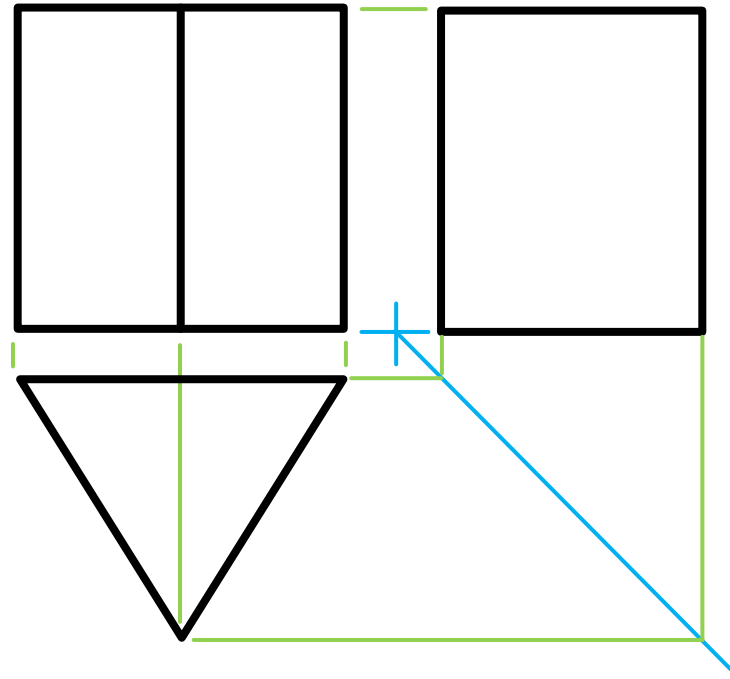
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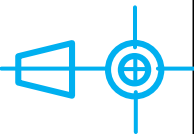
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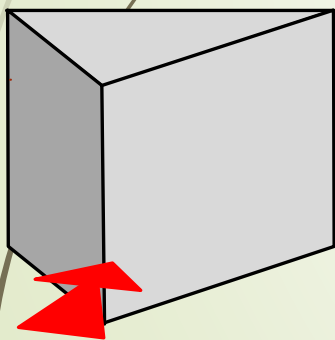
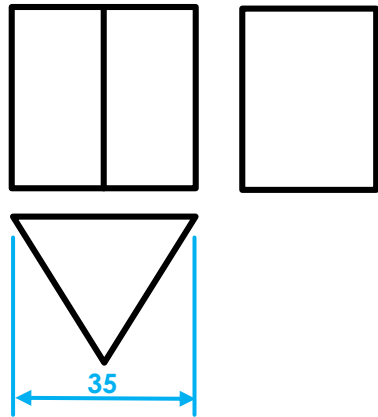
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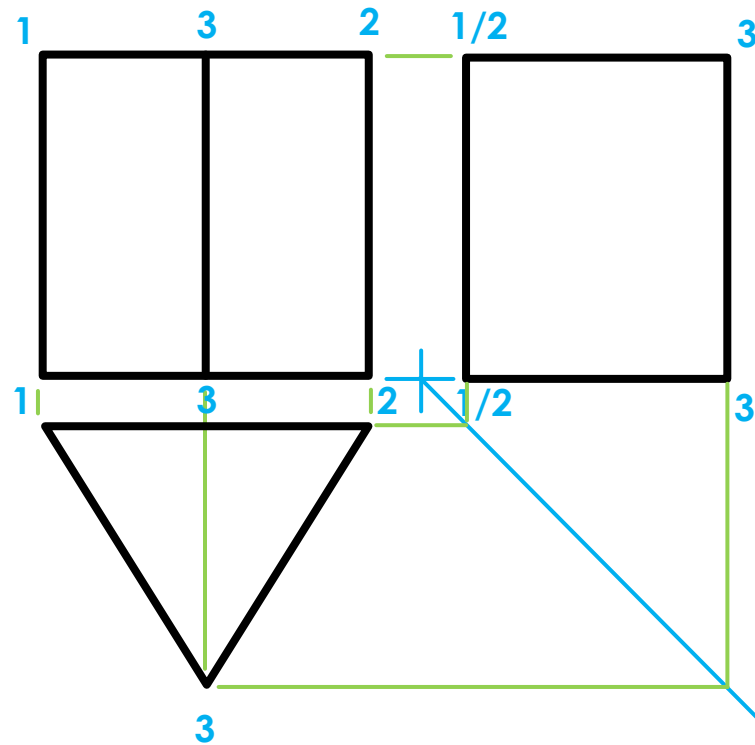
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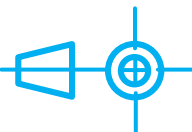
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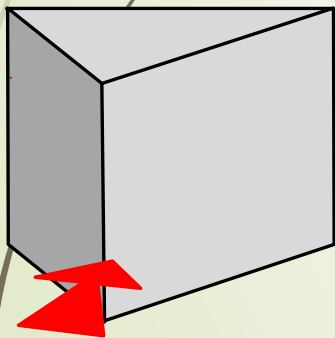
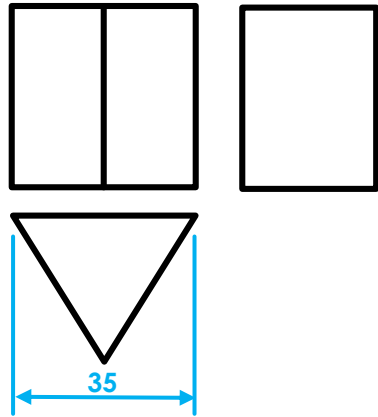
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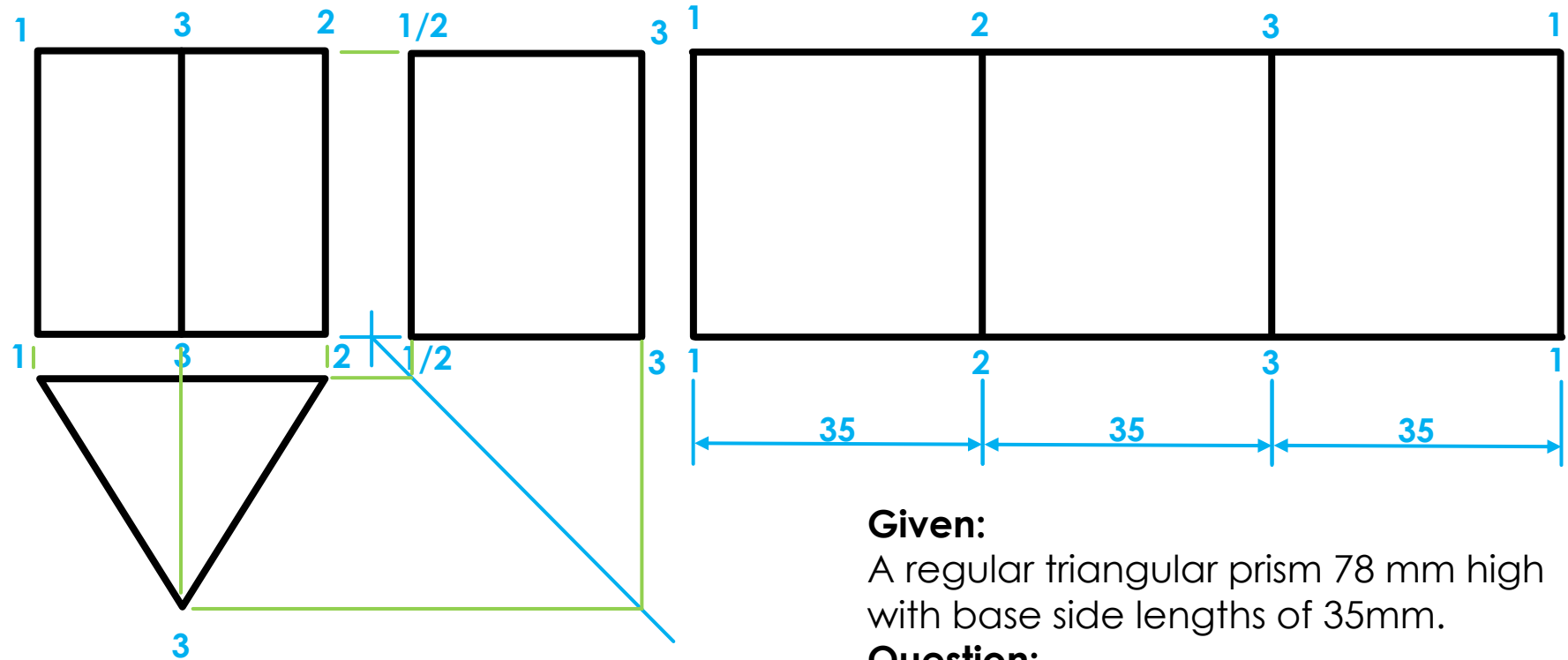
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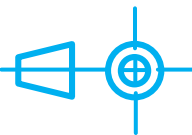
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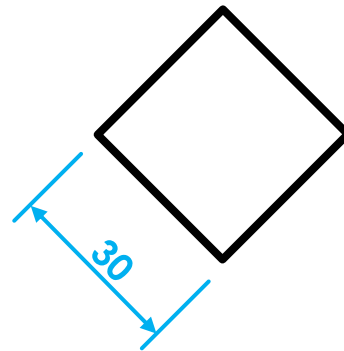
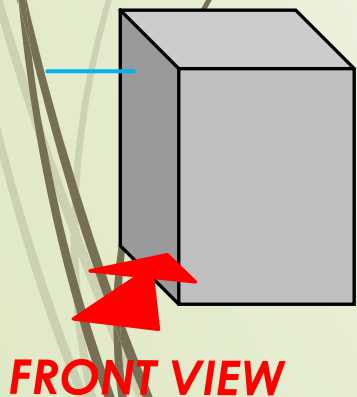
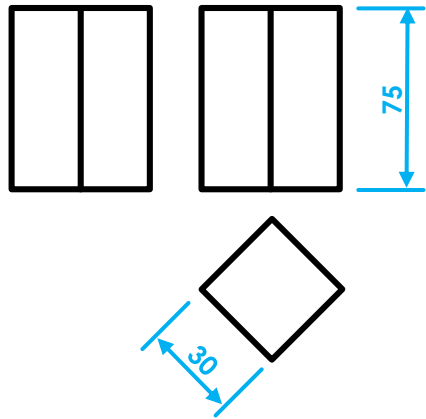
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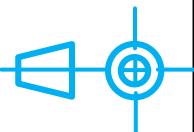
Given:

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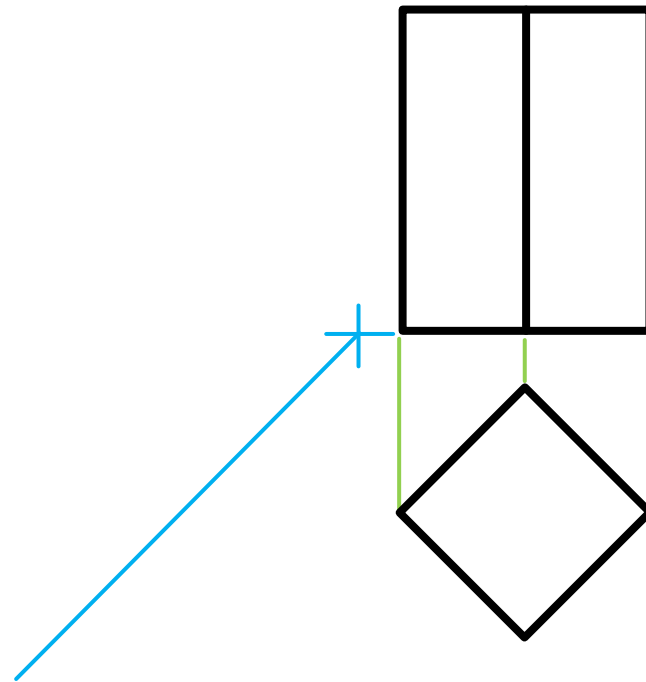
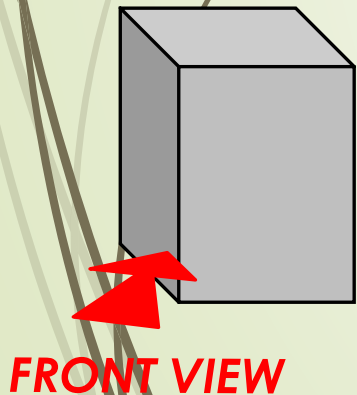
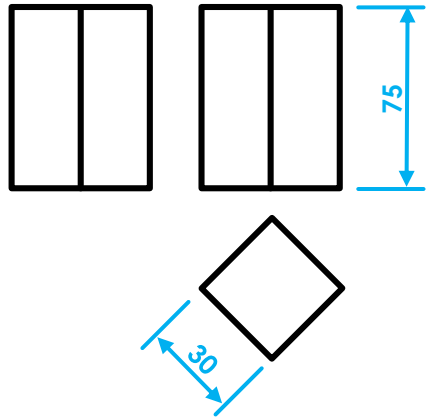
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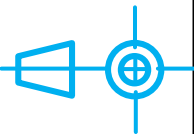
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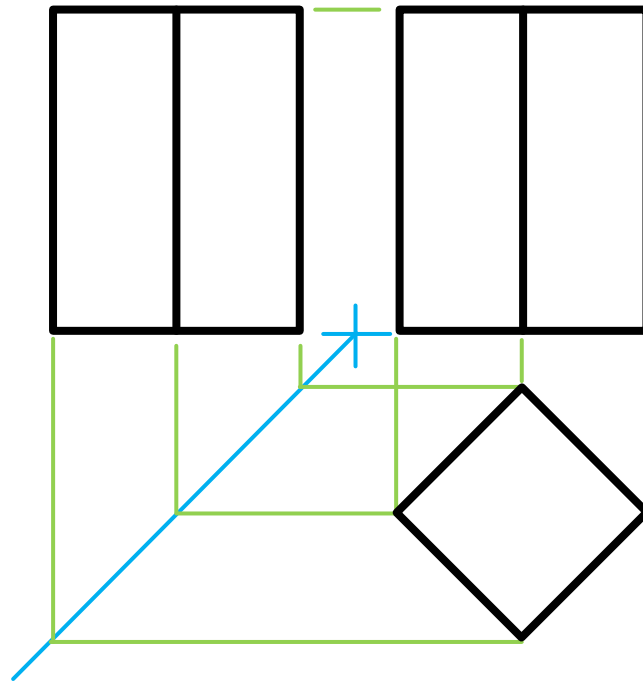
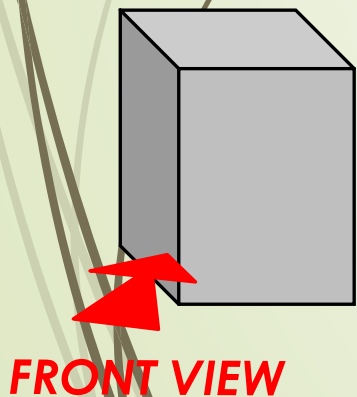
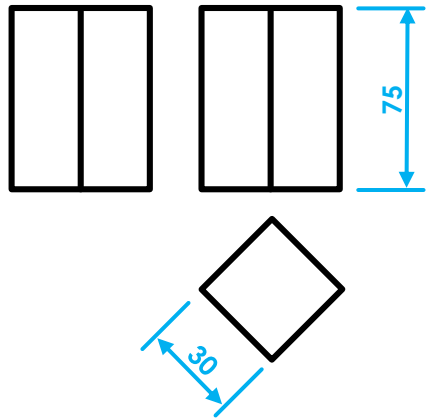
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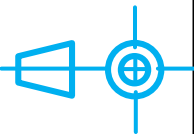
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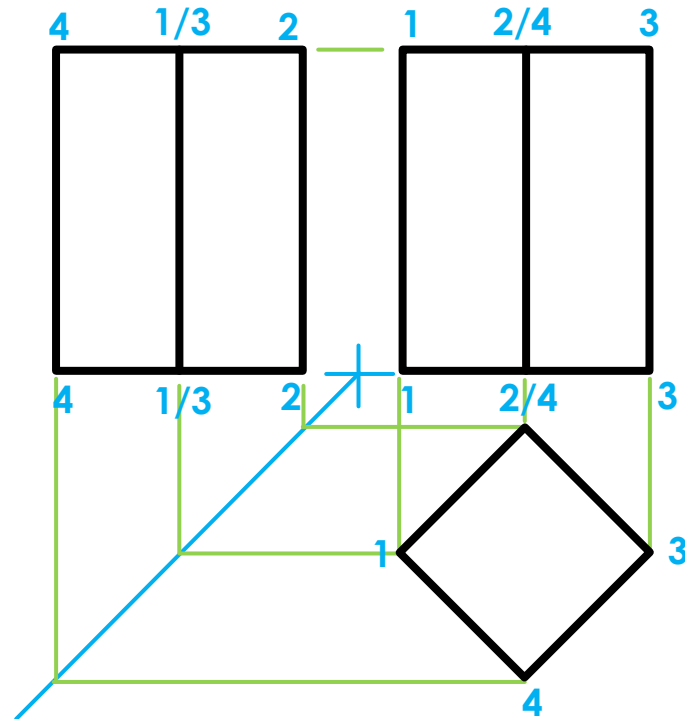
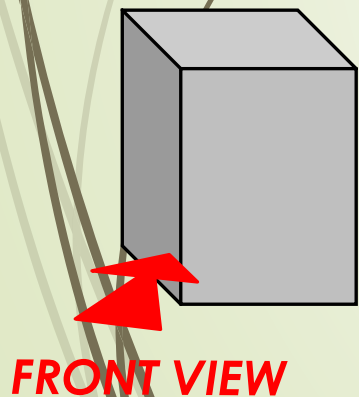
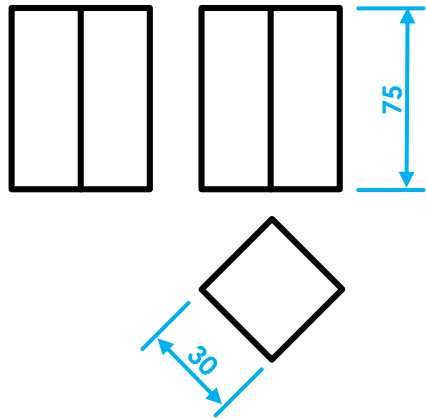
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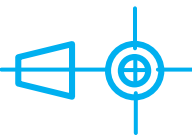
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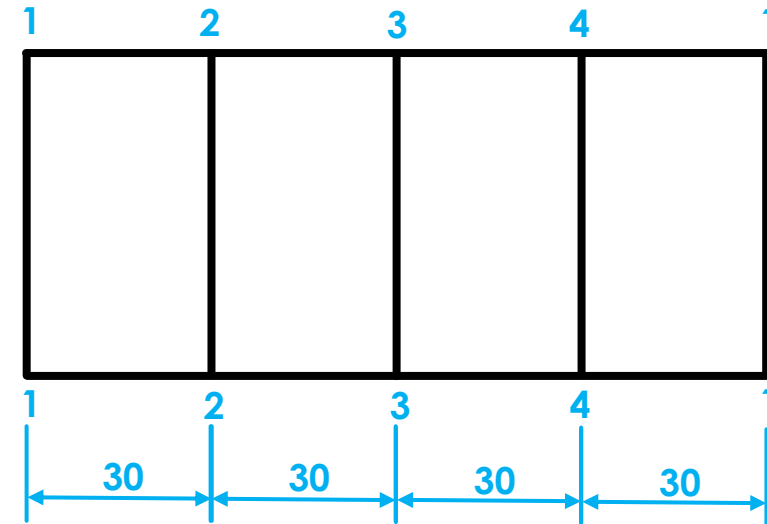
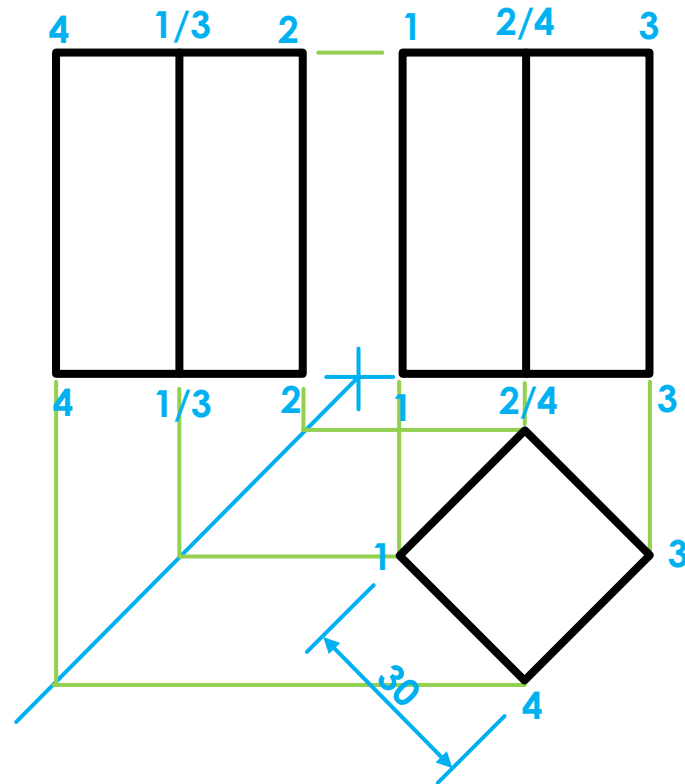
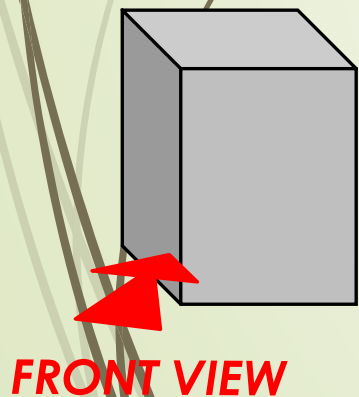
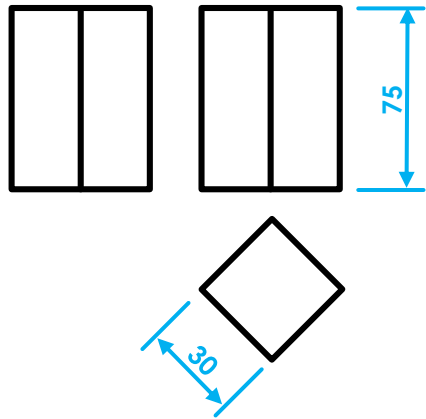
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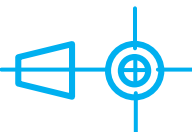
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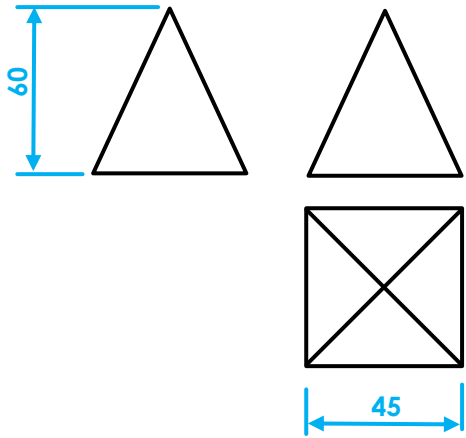
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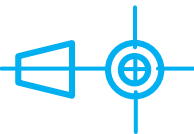
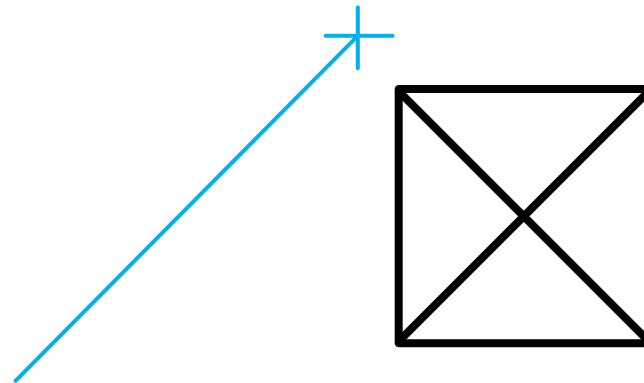
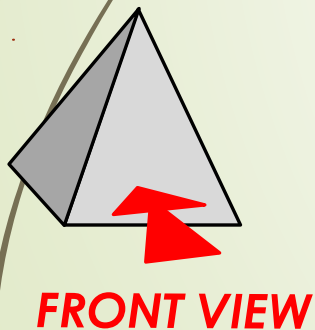
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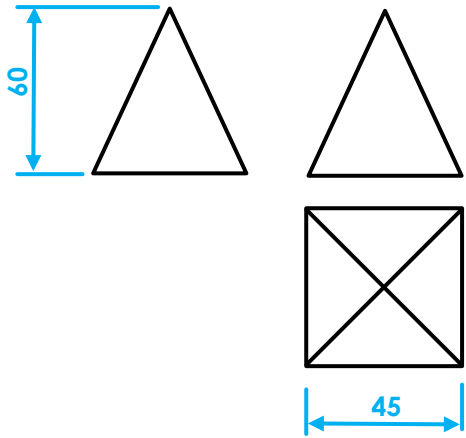
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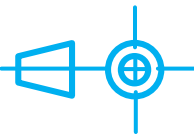
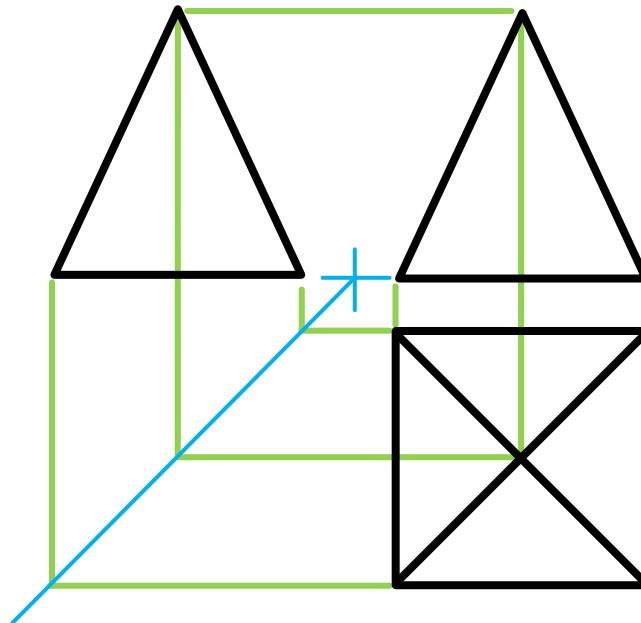
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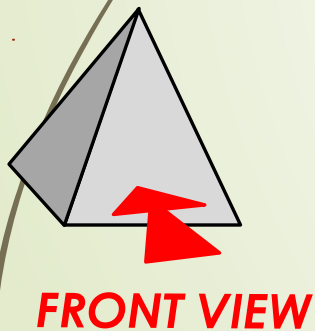
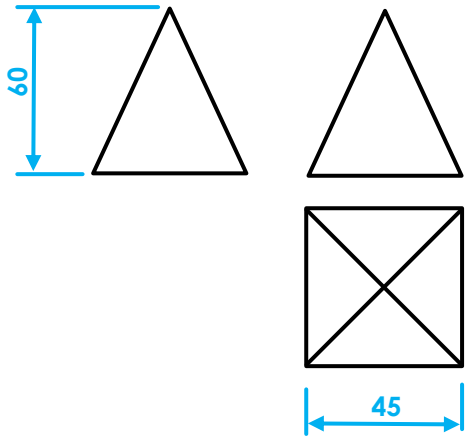
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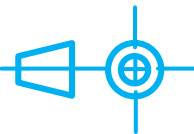
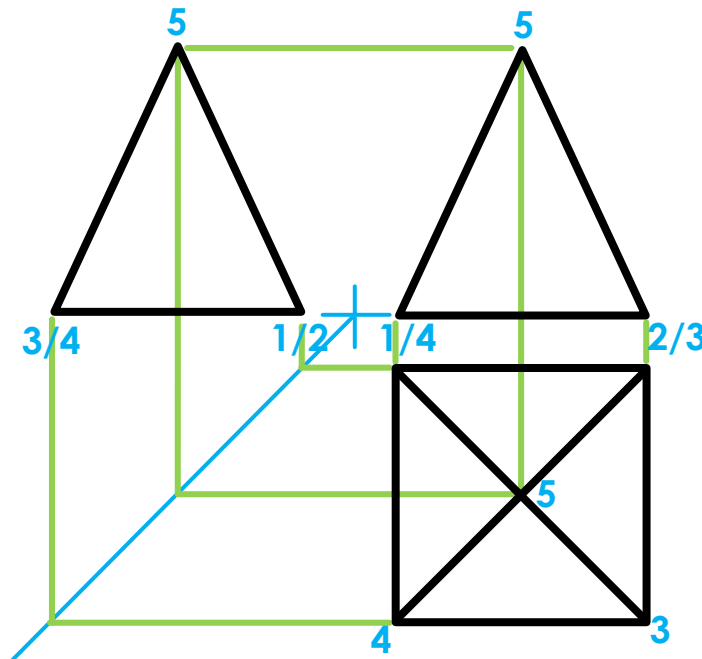
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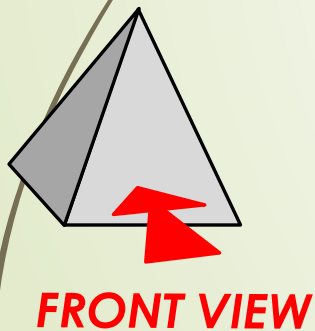
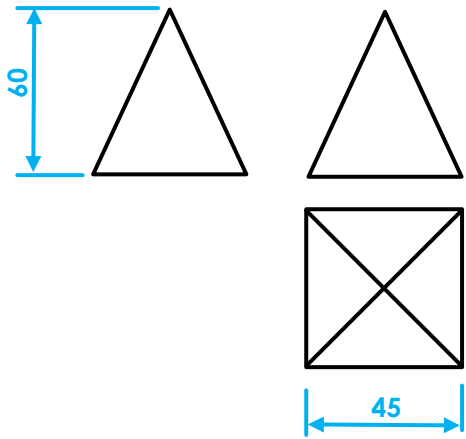
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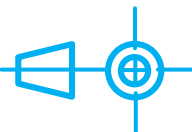
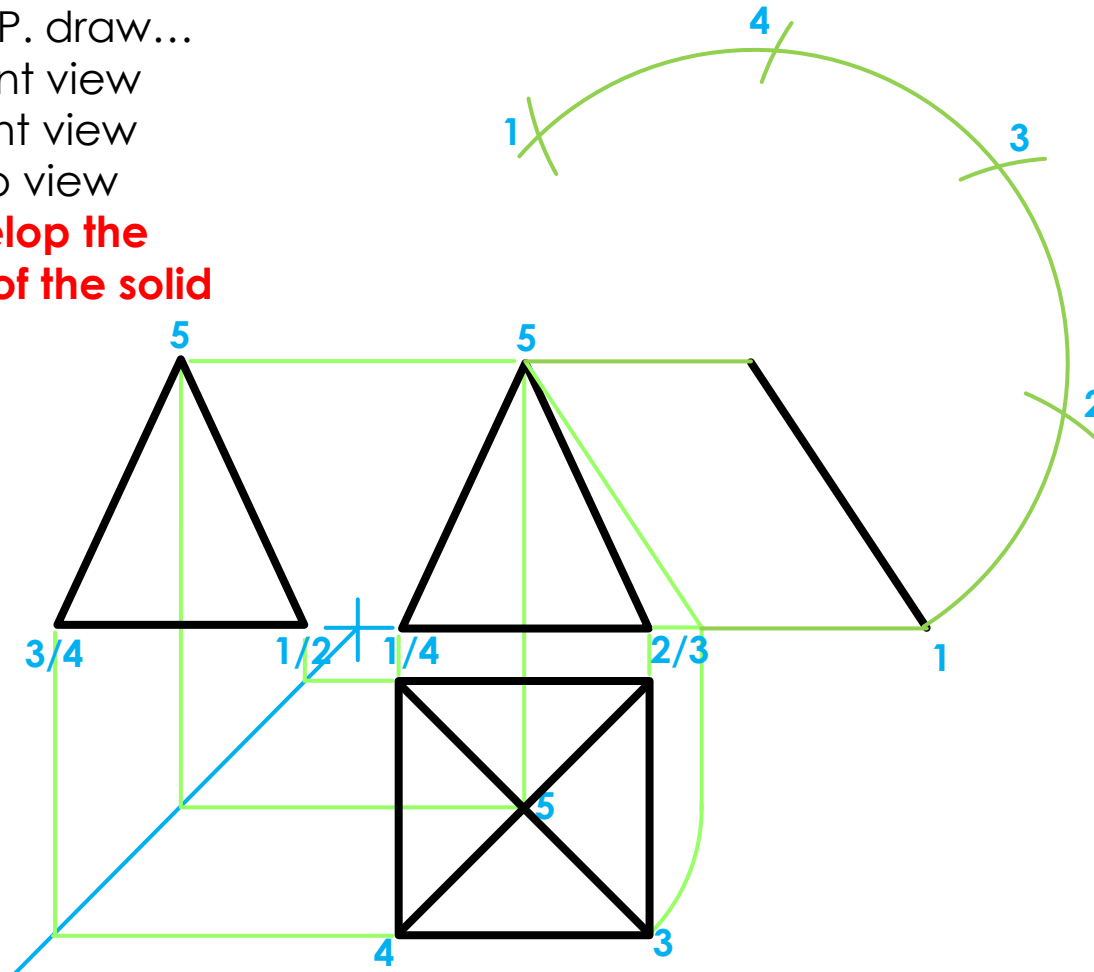
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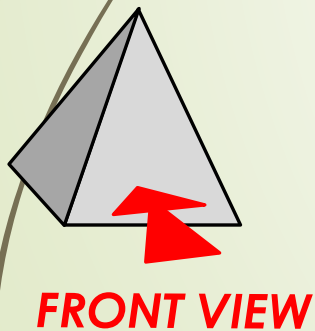
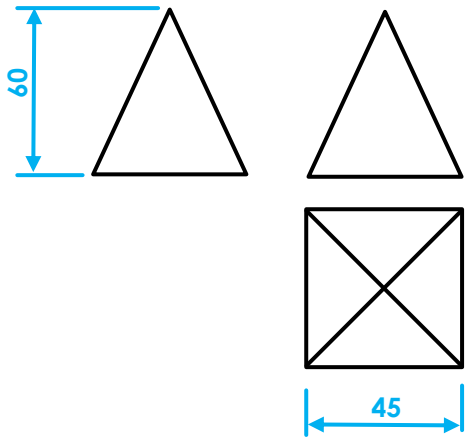
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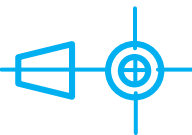
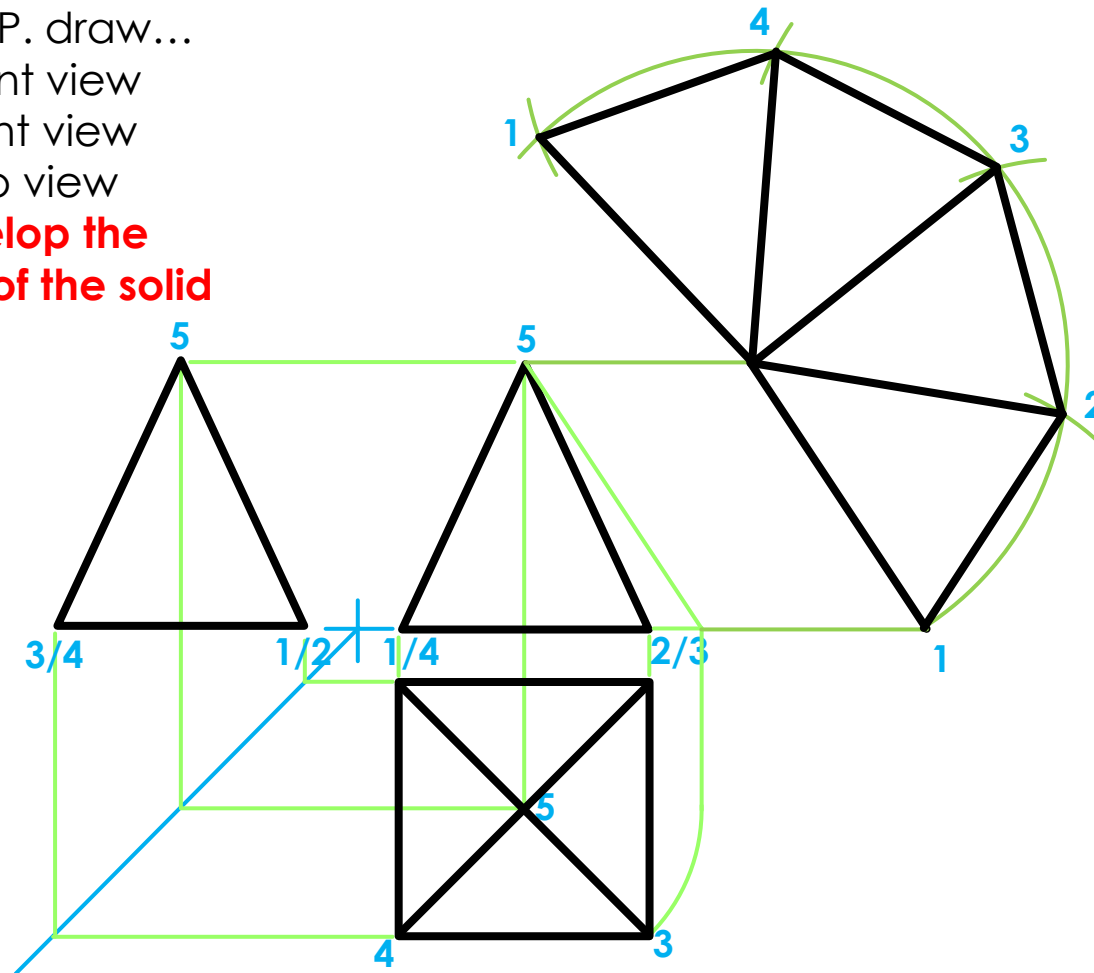
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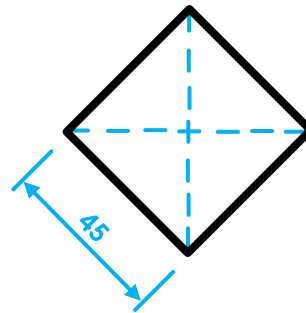
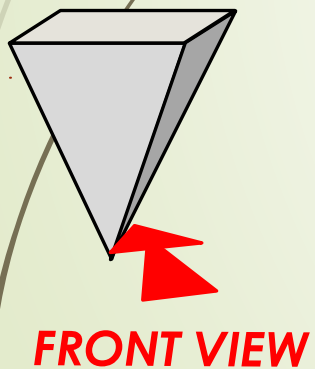
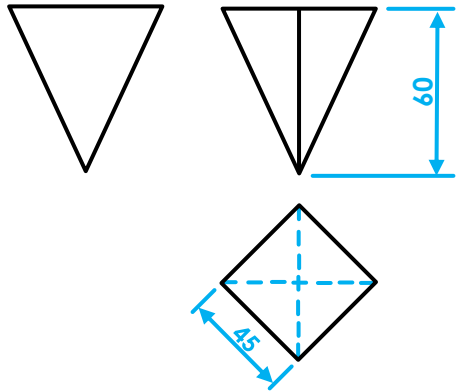
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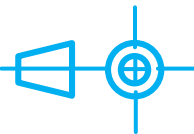
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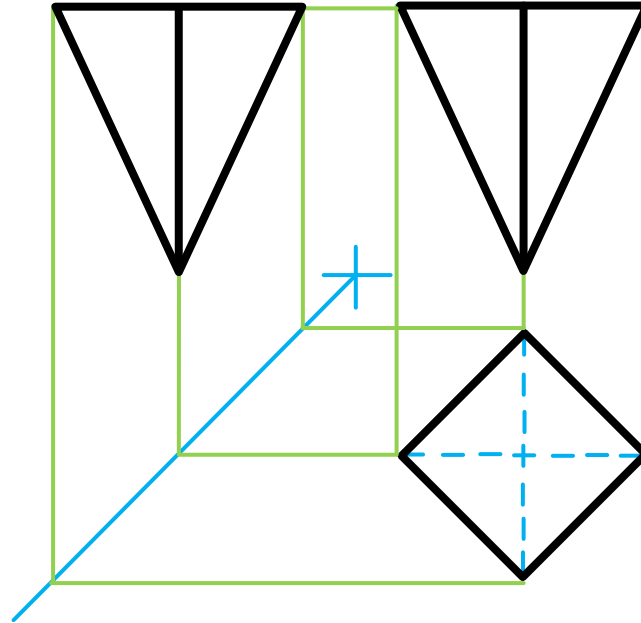
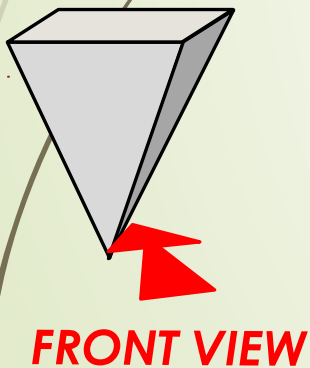
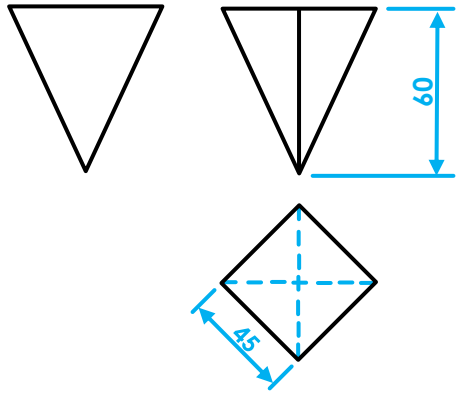
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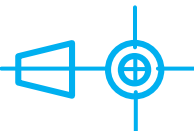
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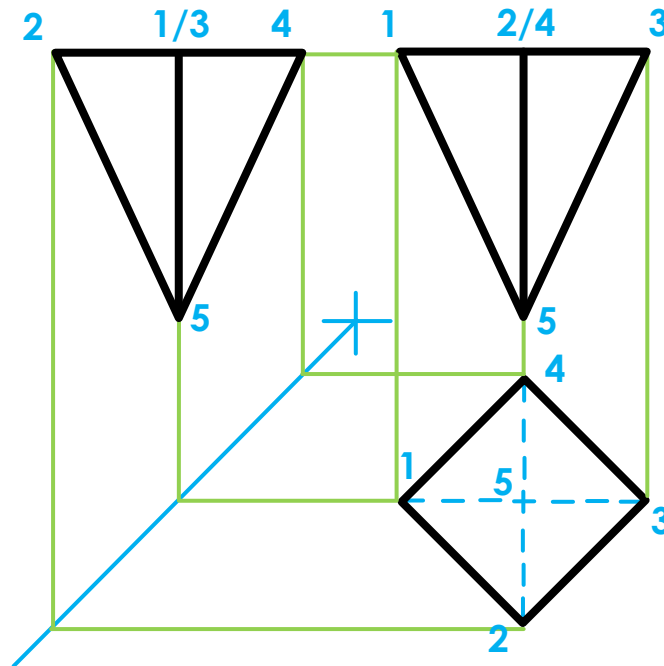
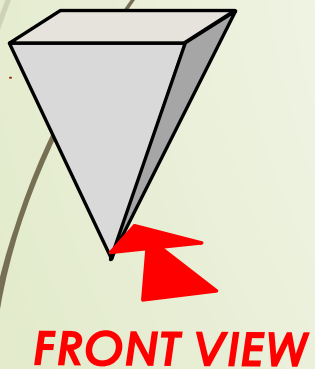
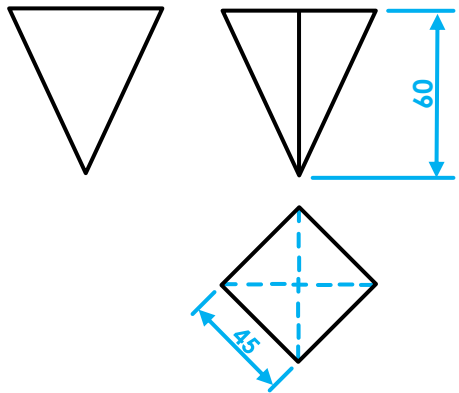
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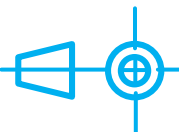
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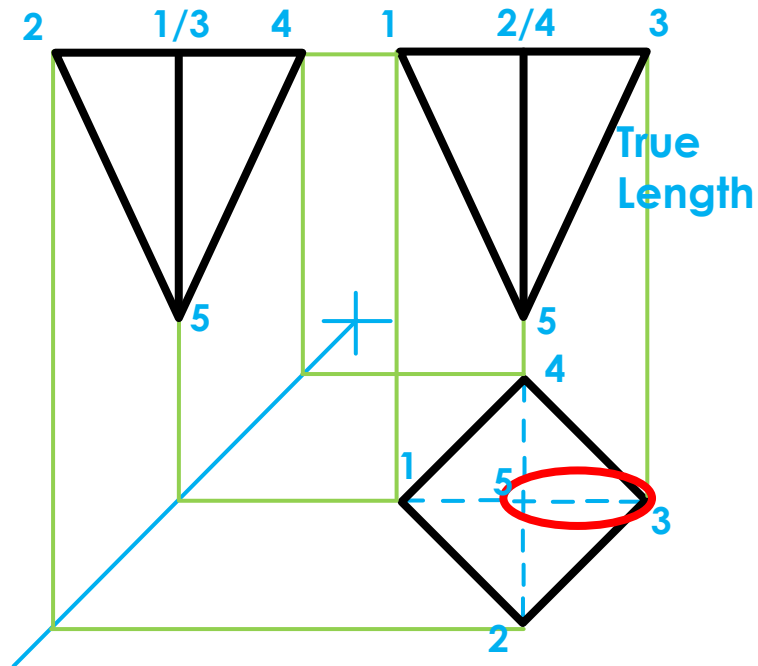
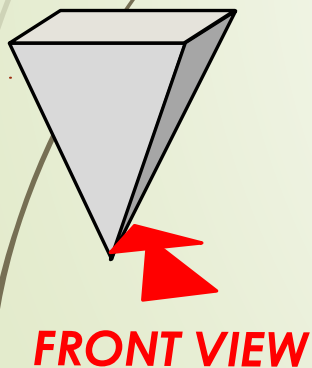
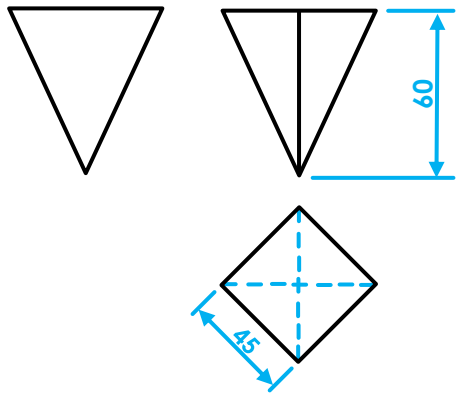
Question:

In F.A.O.P. draw...

1. A front view
2. A right view
3. A top view
4. **Develop the surface of the solid**



Principles of surface developments



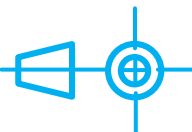
Given:

A regular square pyramid 60 mm high.

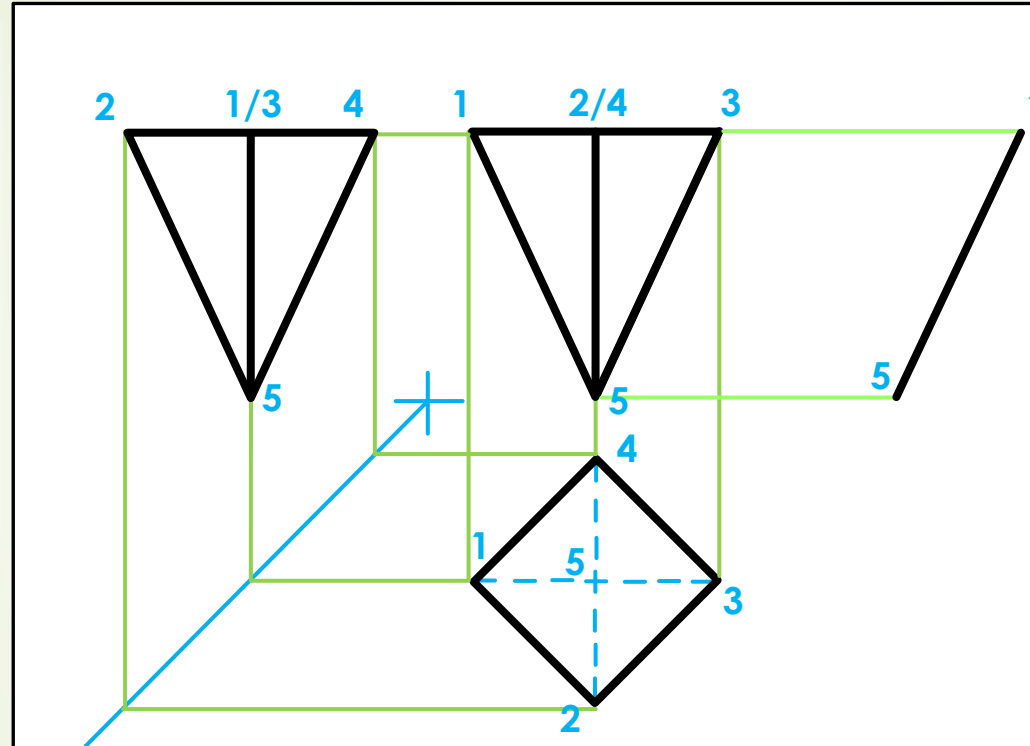
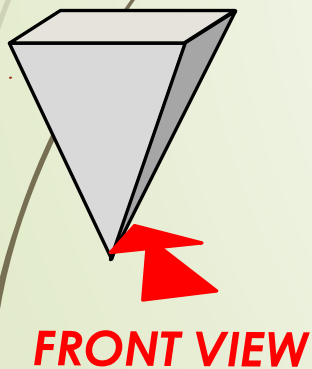
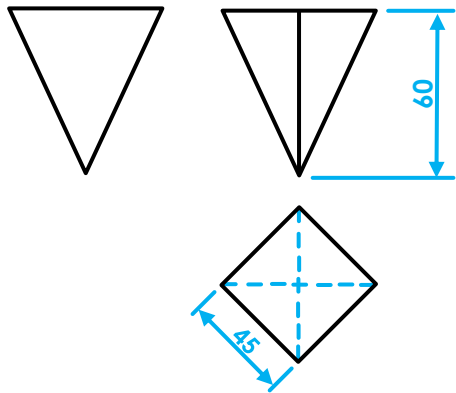
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Principles of surface developments



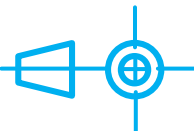
Given:

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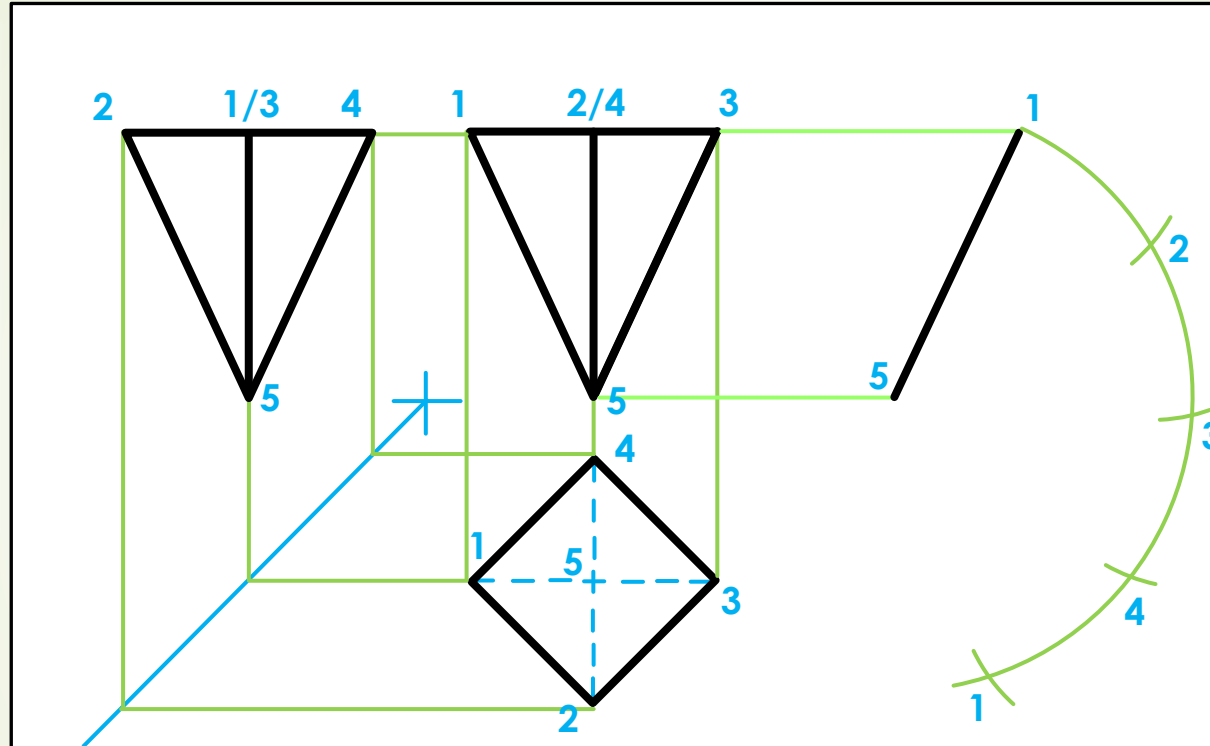
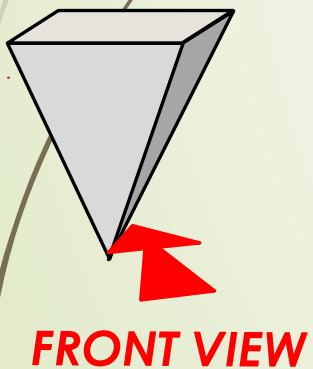
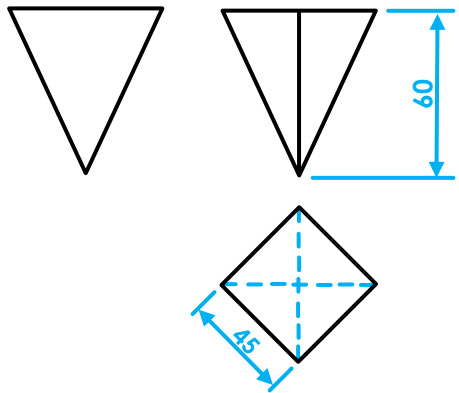
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Principles of surface developments



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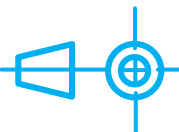
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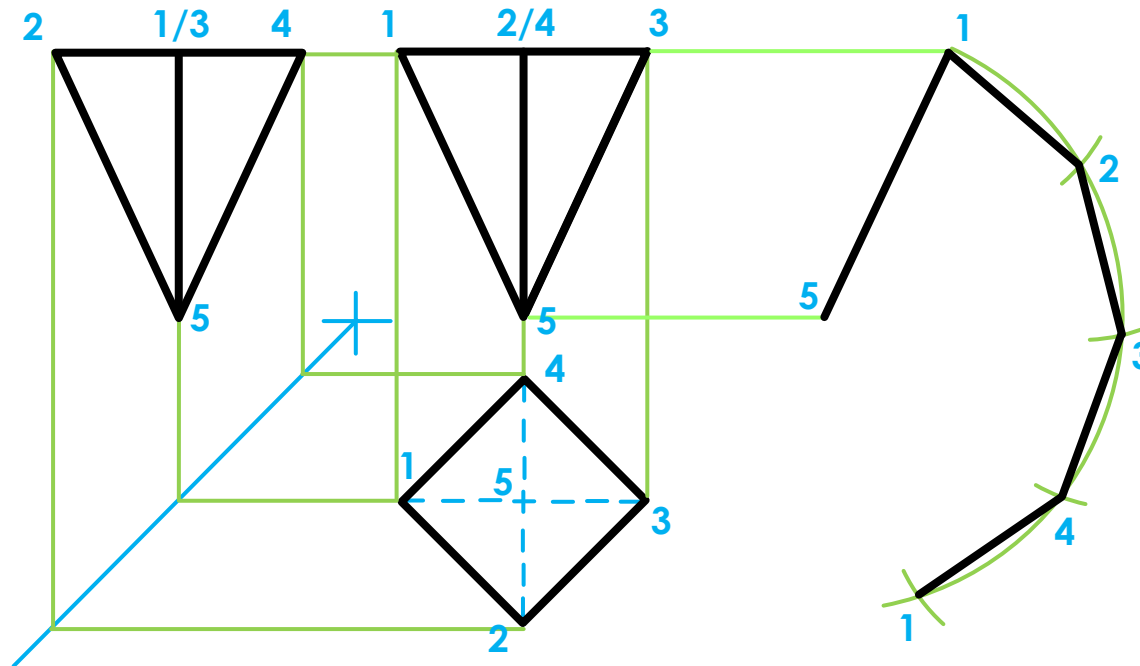
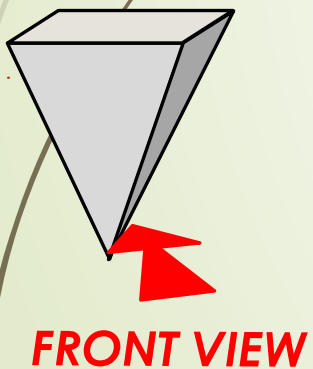
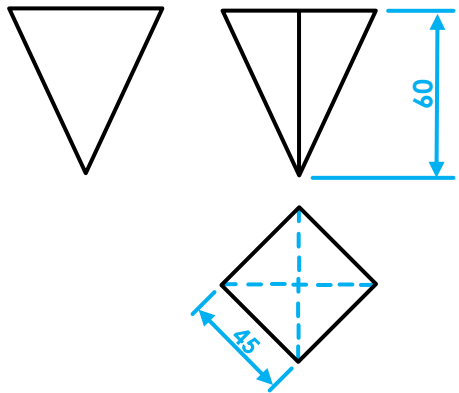
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Principles of surface developments



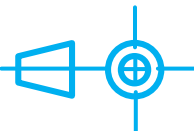
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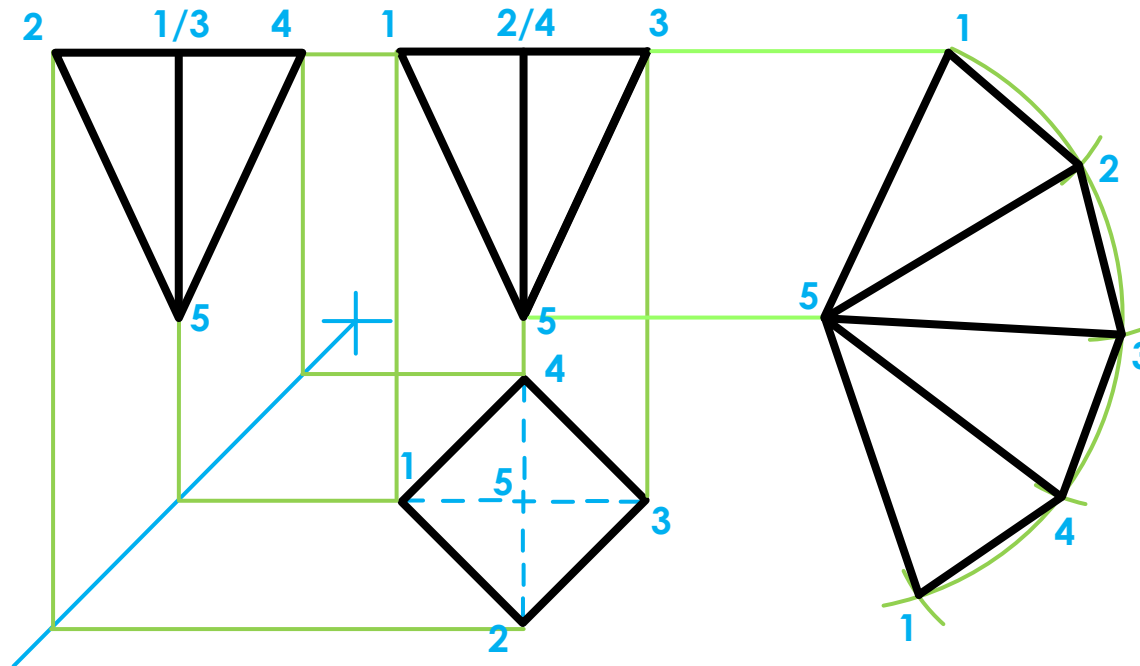
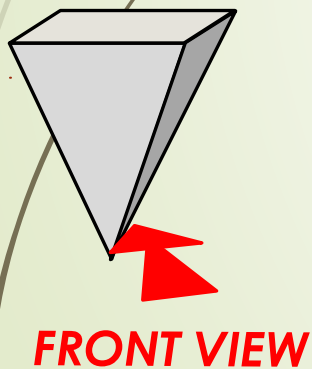
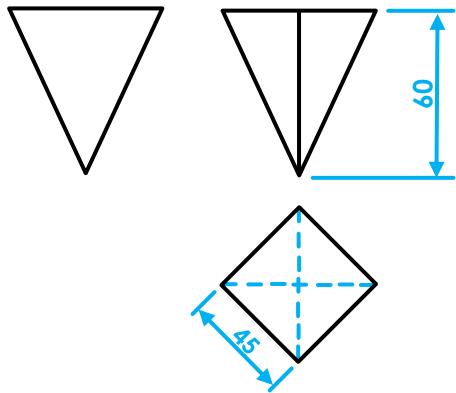
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Principles of surface developments



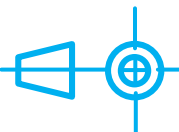
Given:

A regular square pyramid 60 mm high.

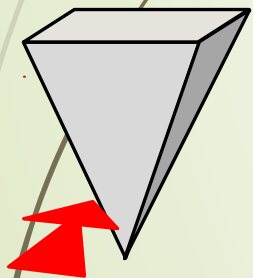
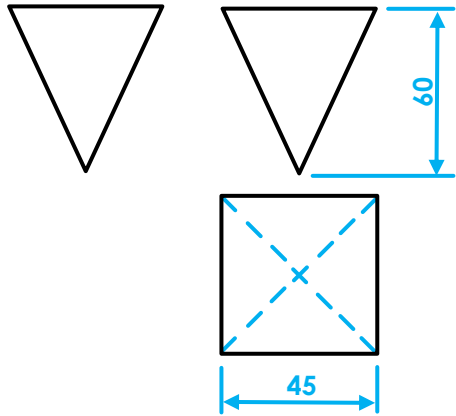
Question:

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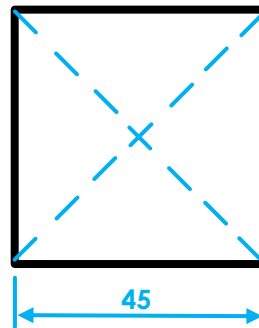
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Principles of surface developments



FRONT VIEW



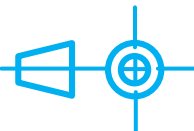
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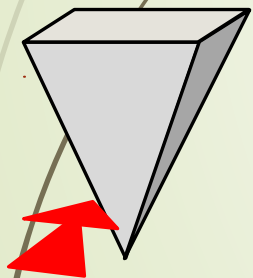
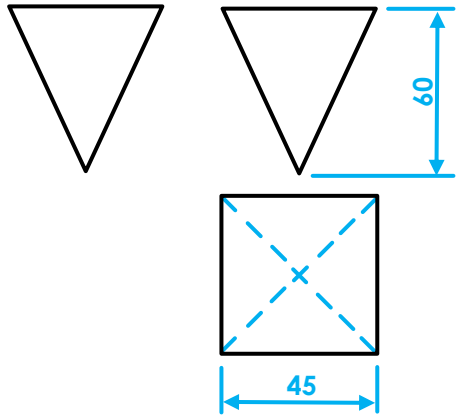
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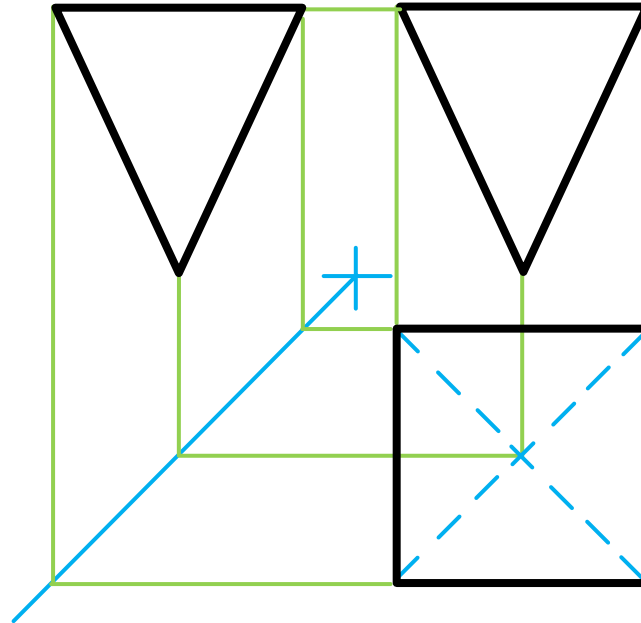
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Principles of surface developments



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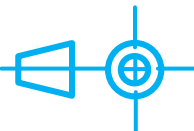
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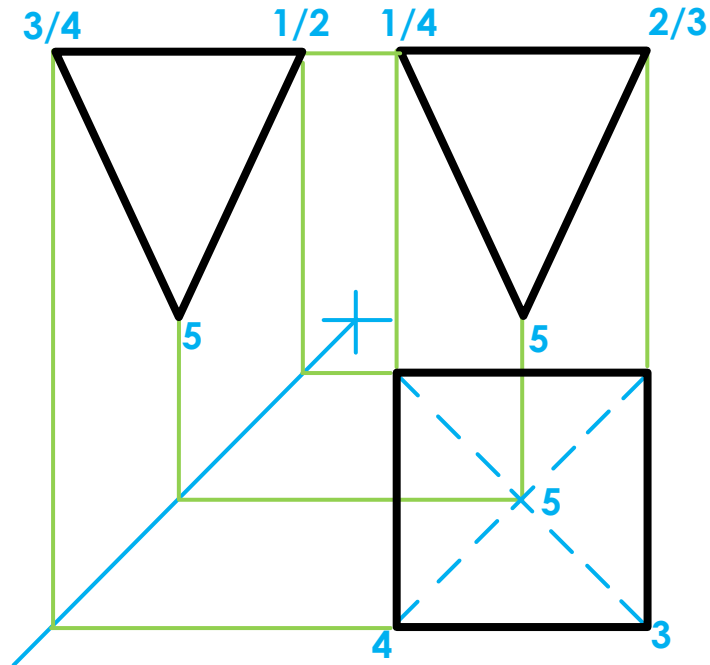
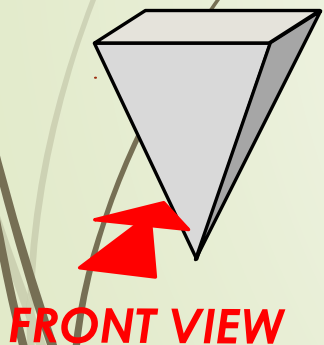
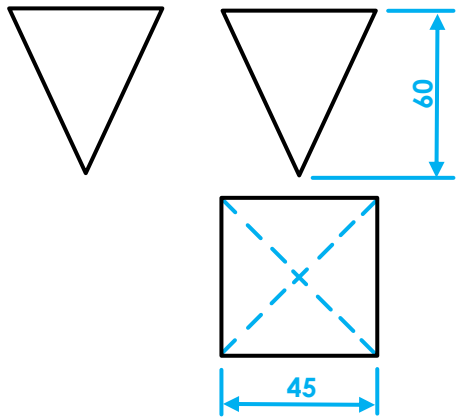
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Principles of surface developments



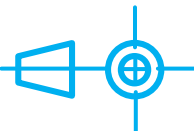
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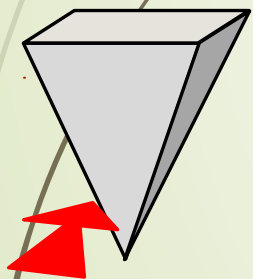
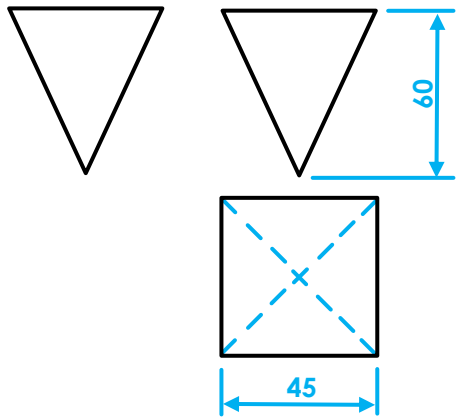
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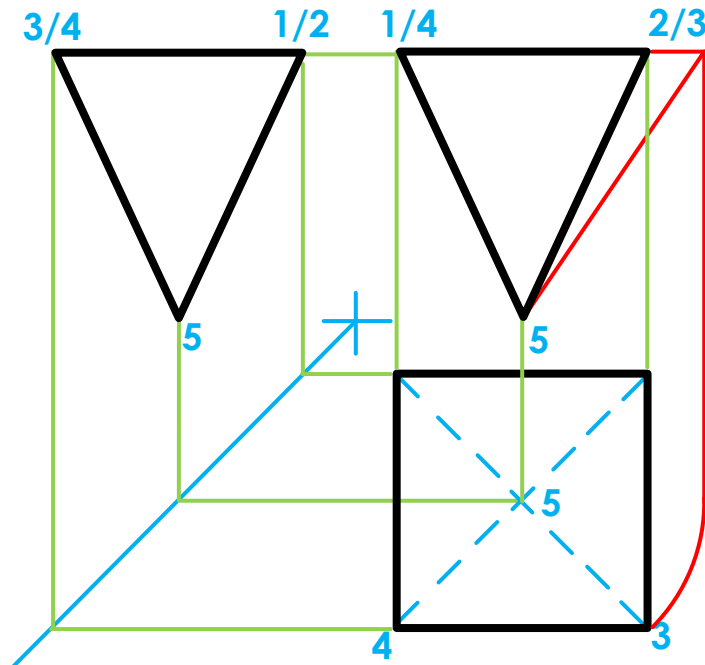
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Principles of surface developments



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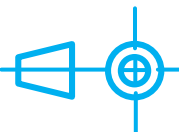
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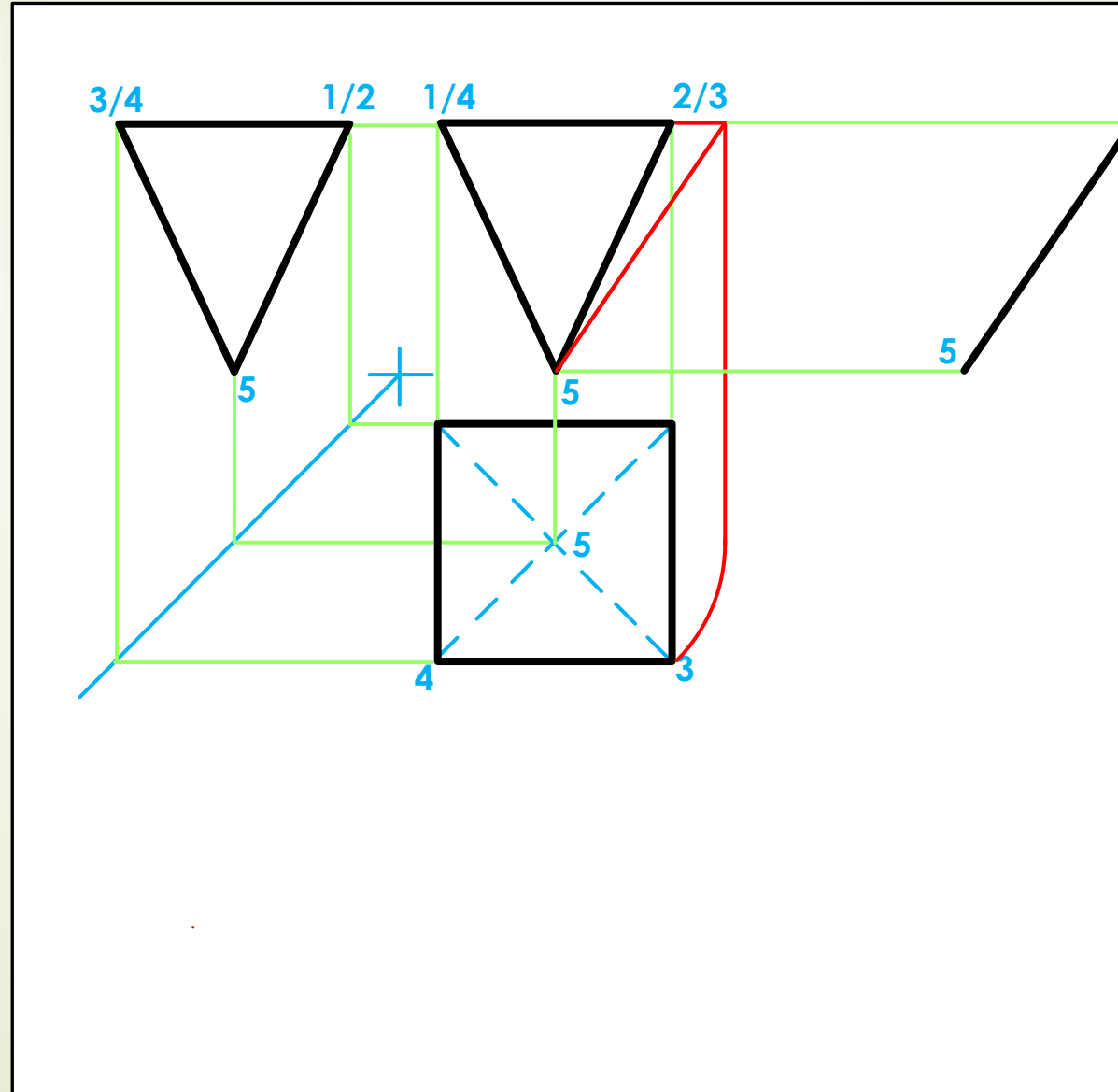
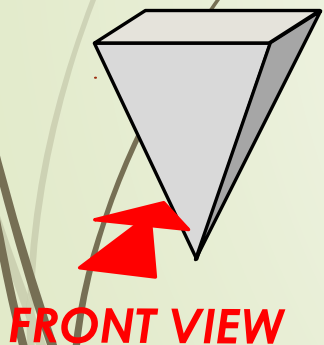
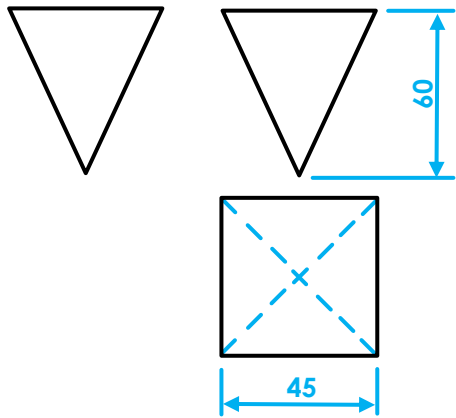
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Principles of surface developments



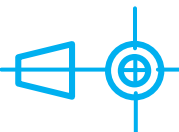
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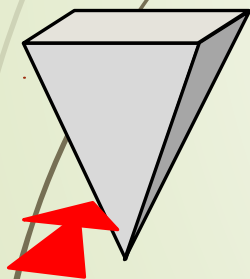
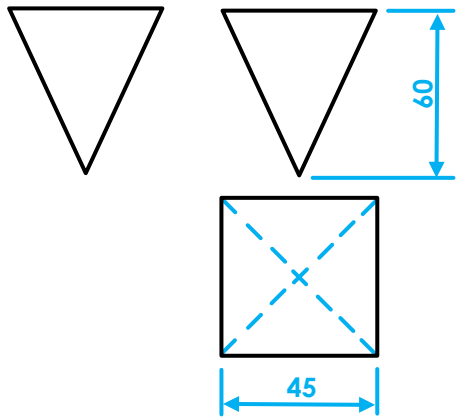
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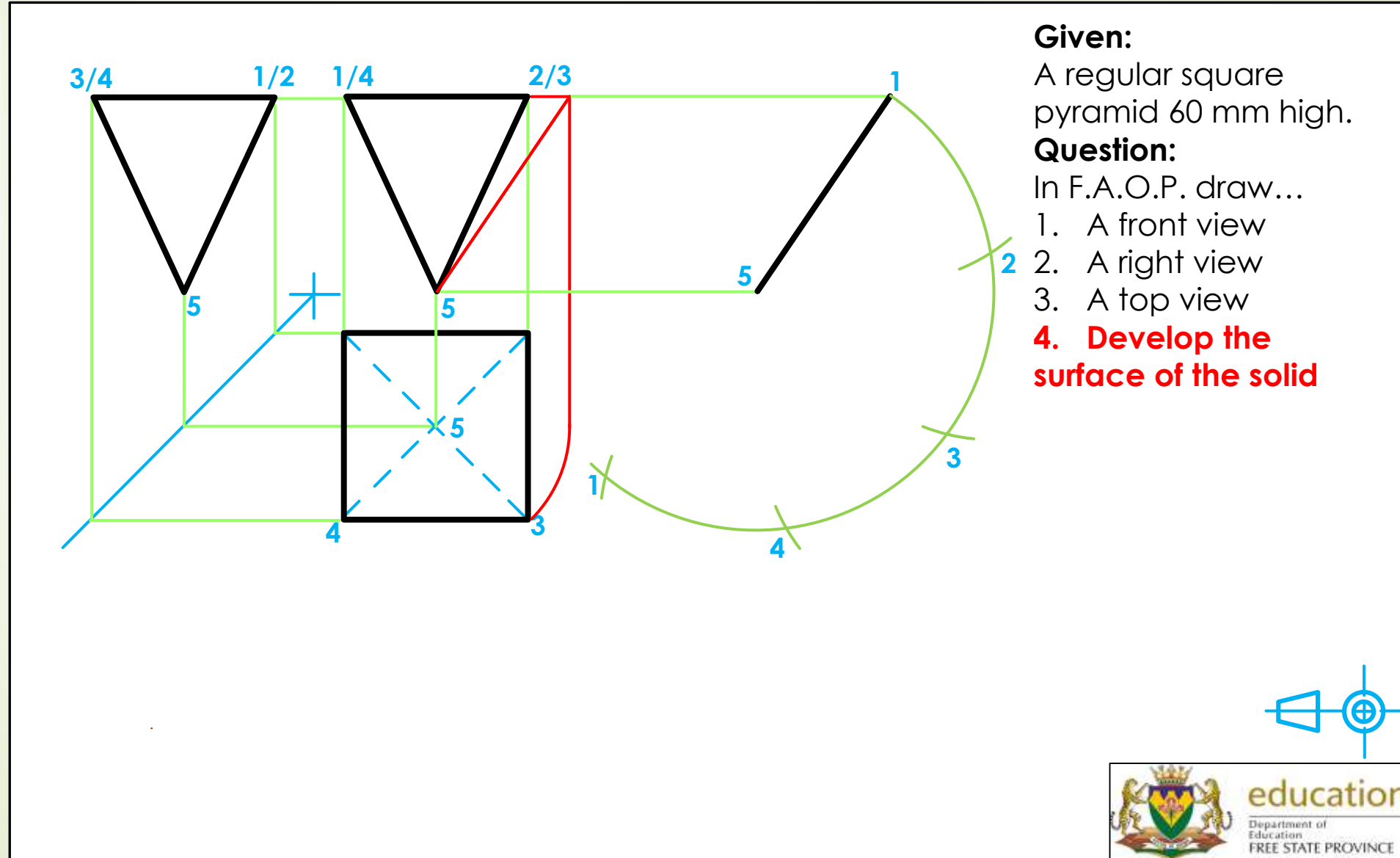
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Principles of surface developments



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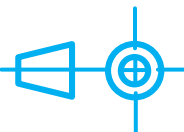
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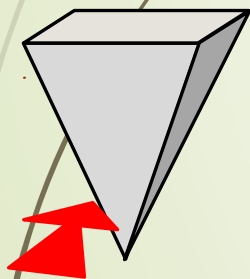
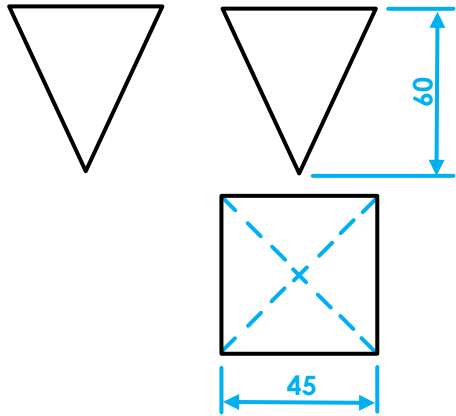
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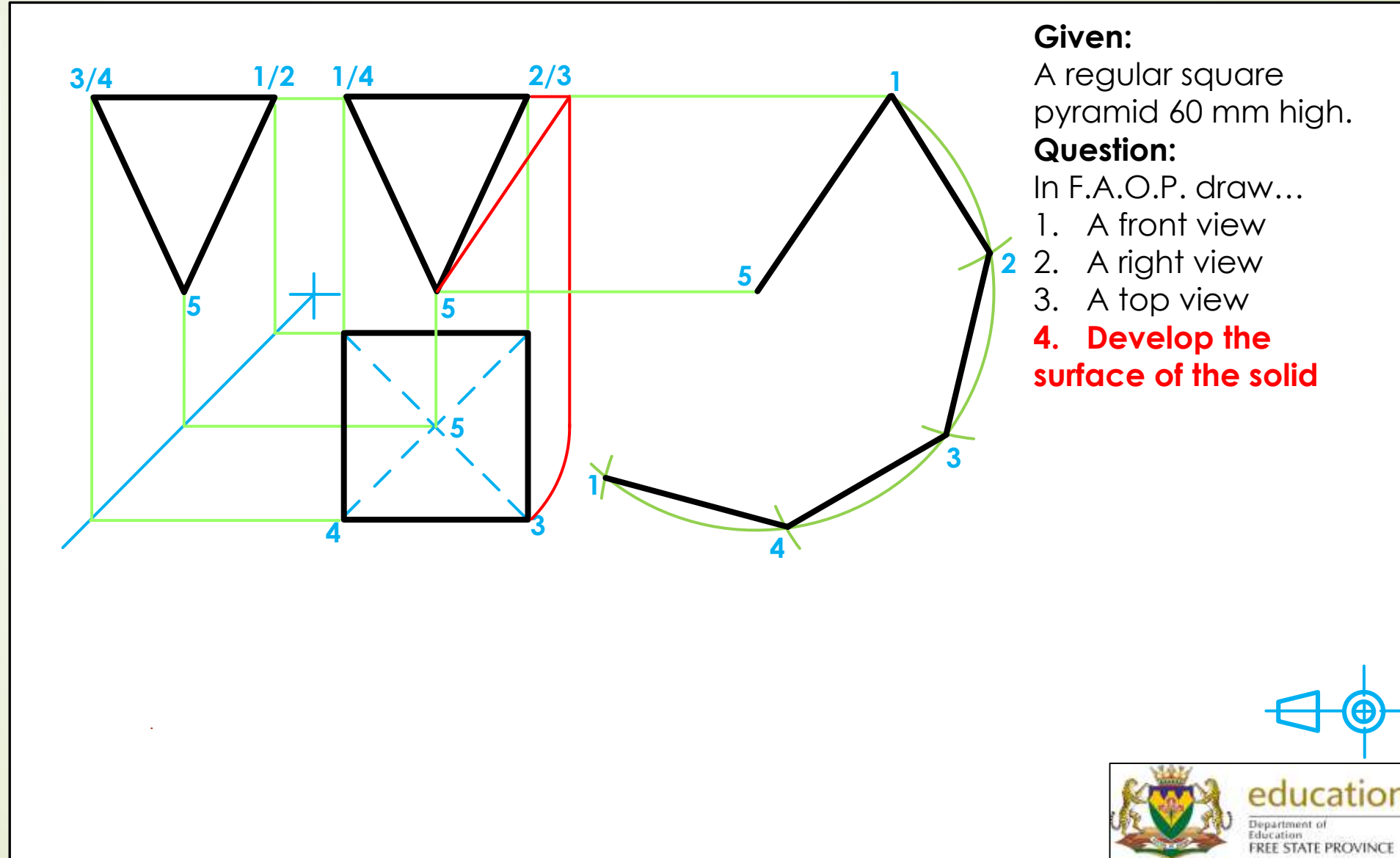
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Principles of surface developments



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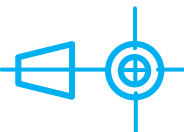
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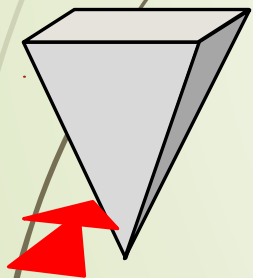
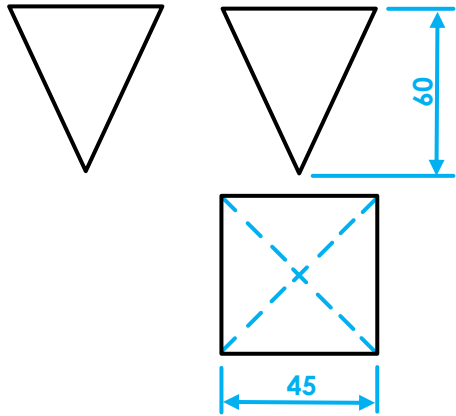
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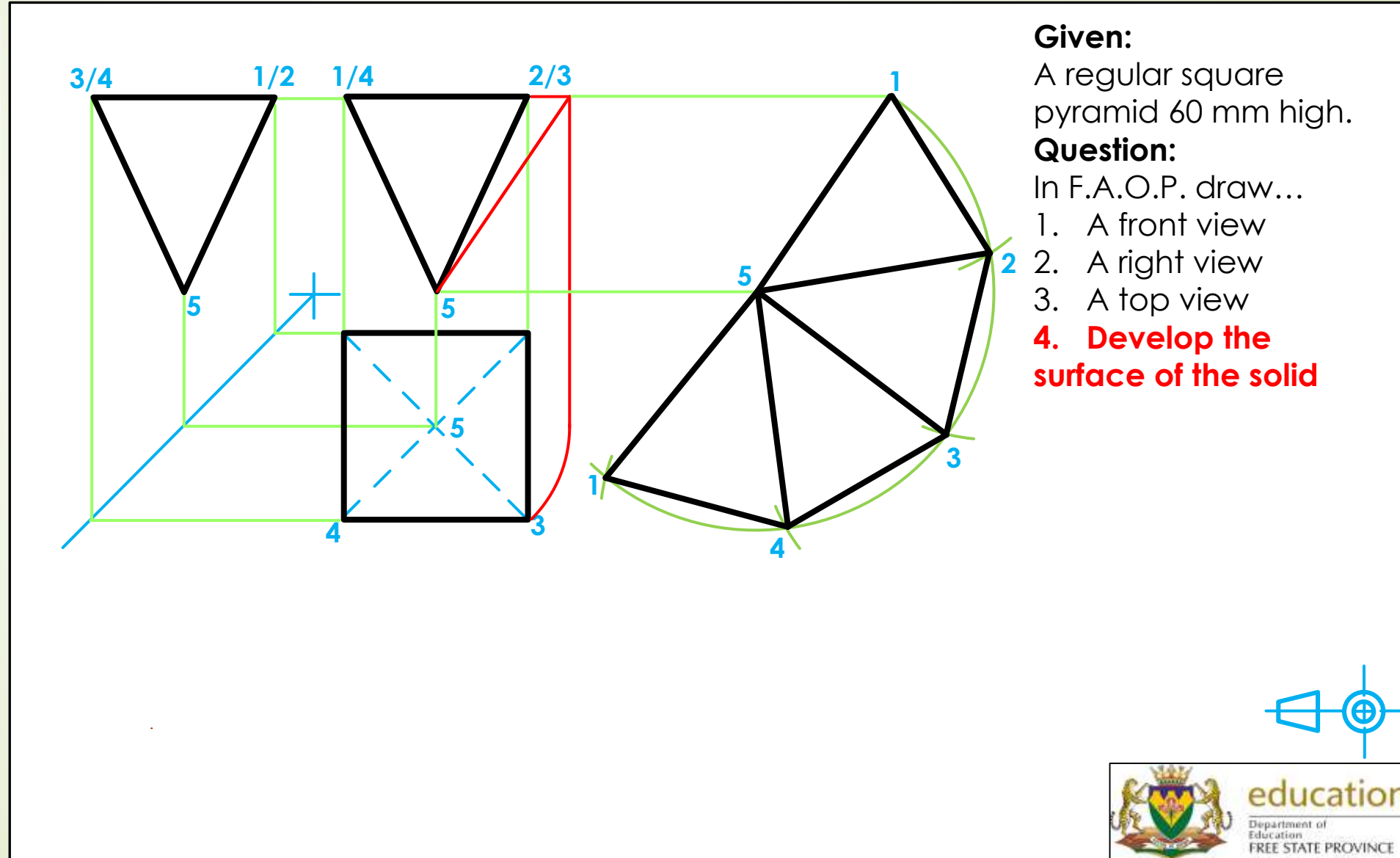
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