



Application on polygons

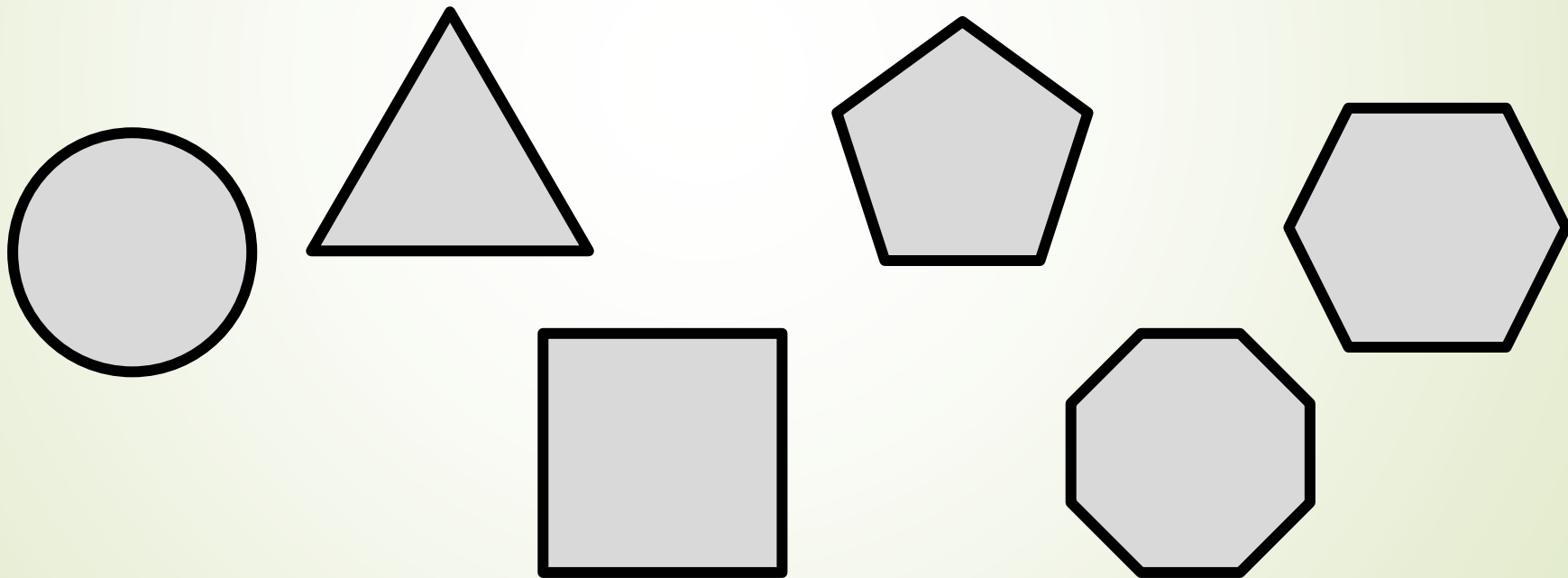
Horizontal Axis

Grade 10, 11 & 12

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

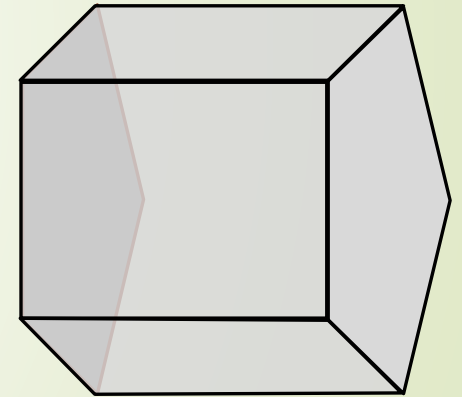
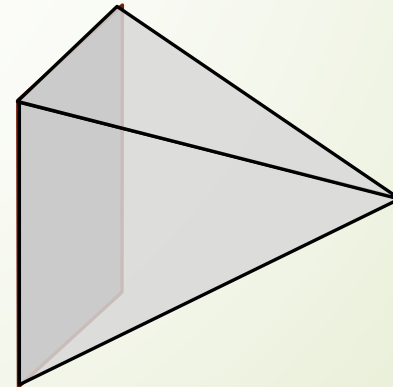
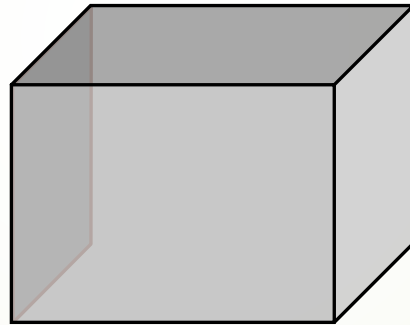
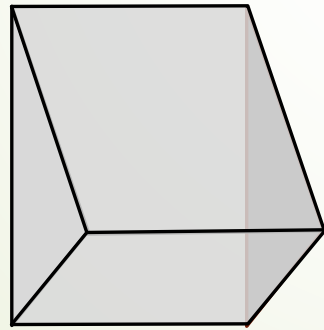
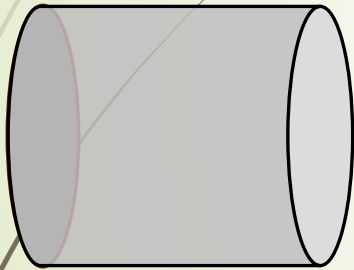
Application on polygons

- By now you should be familiar with the construction of polygons



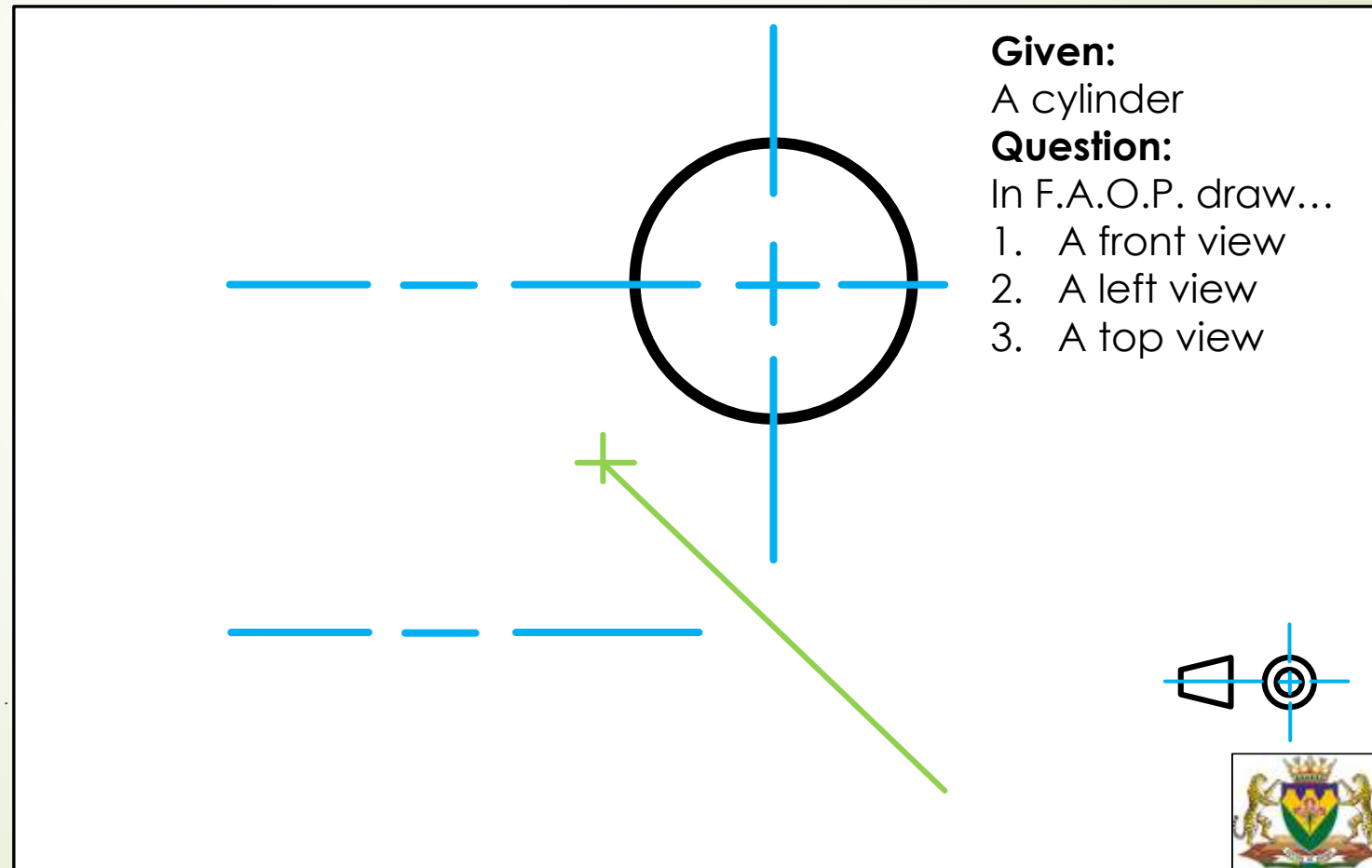
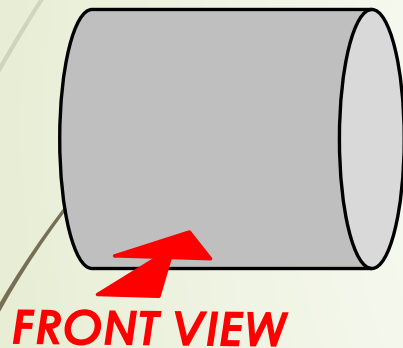
Application on polygons

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



Application on polygons

- Determine which view is needed and use either the left or right view for the auxiliary view

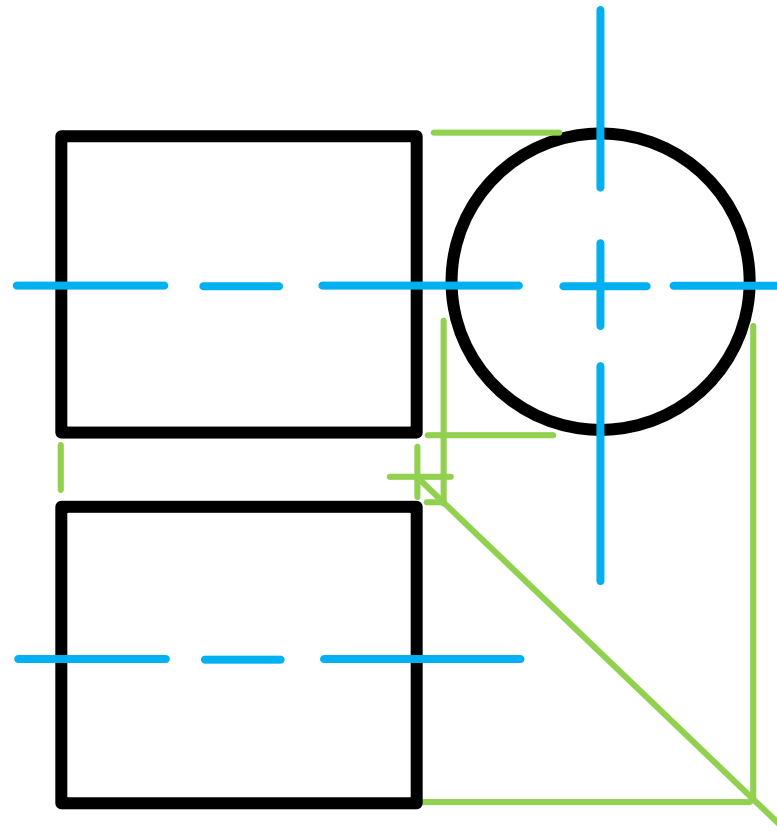
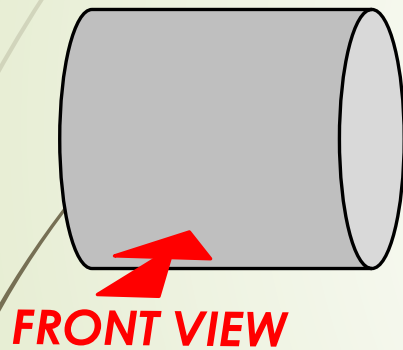


Given:
A cylinder

Question:
In F.A.O.P. draw...

1. A front view
2. A left view
3. A top view

Application on polygons



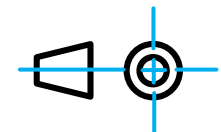
Given:

A cylinder

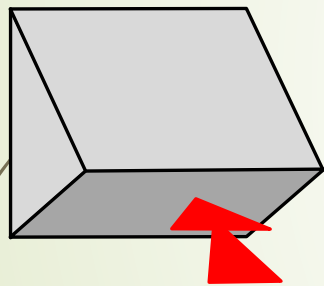
Question:

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

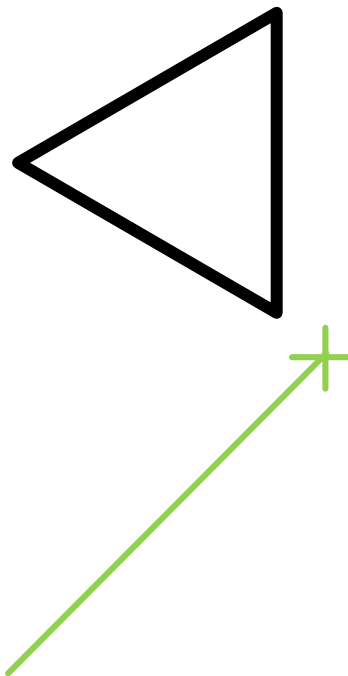
1. A front view
2. A left view
3. A top view



Application on polygons



FRONT VIEW



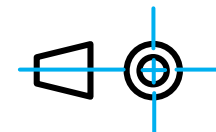
Given:

A triangular prism

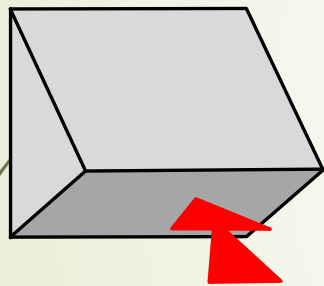
Question:

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

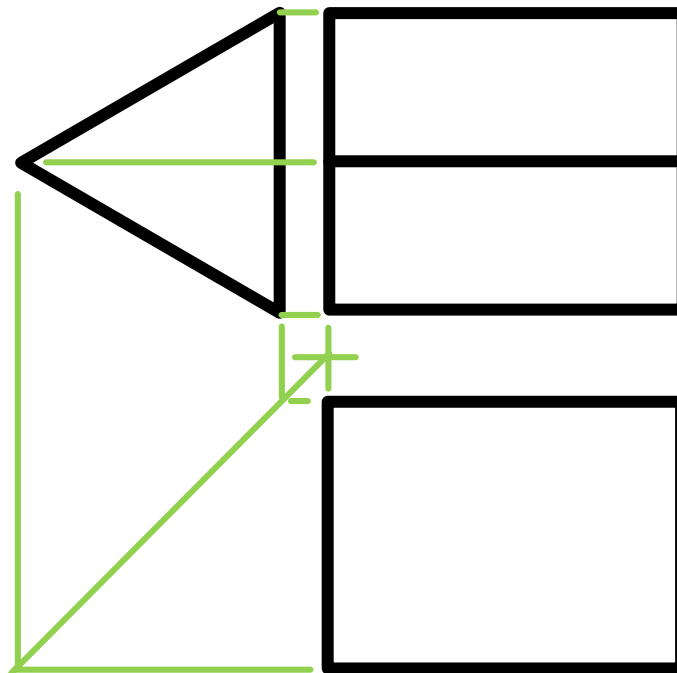
1. A front view
2. A right view
3. A top view



Application on polygons



FRONT VIEW



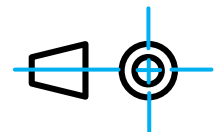
Given:

A triangular prism

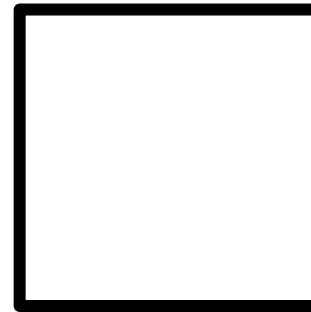
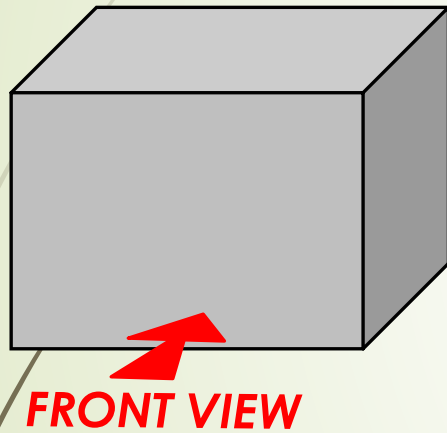
Question:

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

1. A front view
2. A right view
3. A top view



Application on polygons



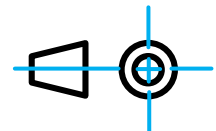
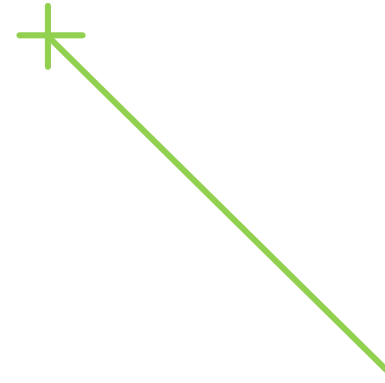
Given:

A square prism

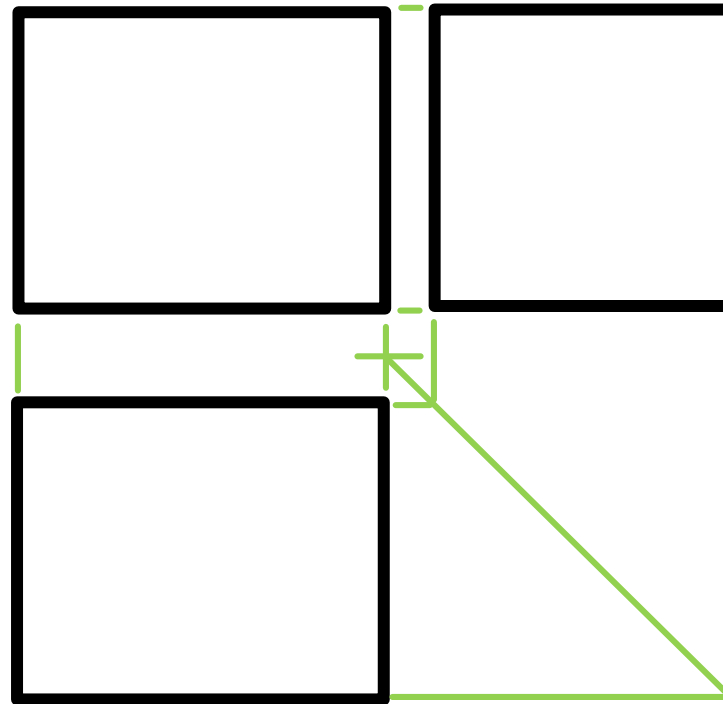
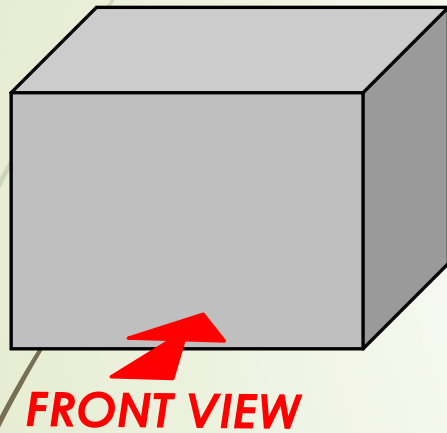
Question:

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

1. A front view
2. A left view
3. A top view



Application on polygons



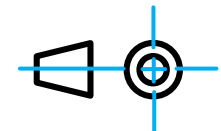
Given:

A square prism

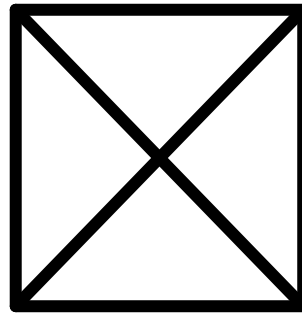
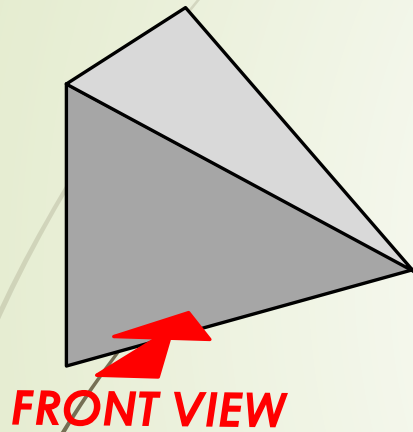
Question:

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

1. A front view
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3. A top view



Application on polygons



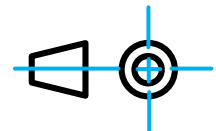
Given:

A square pyramid

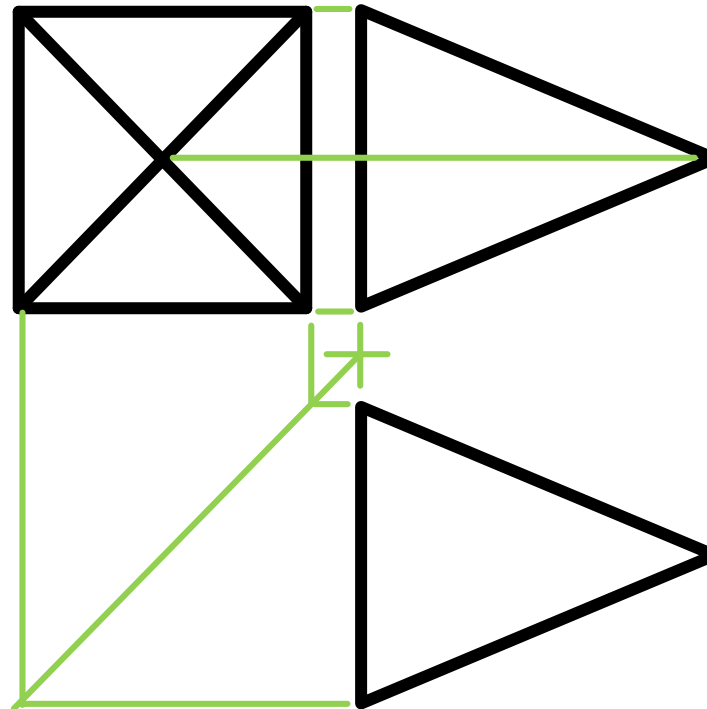
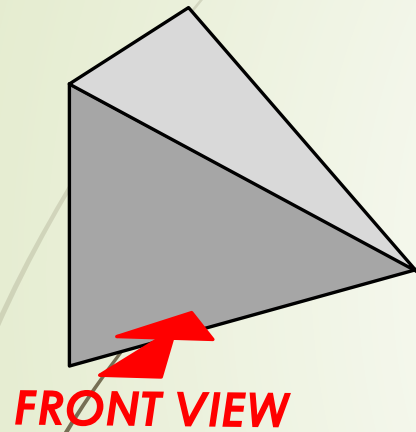
Question:

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

1. A front view
2. A right view
3. A top view



Application on polygons



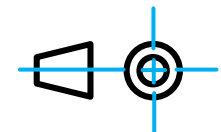
Given:

A square pyramid

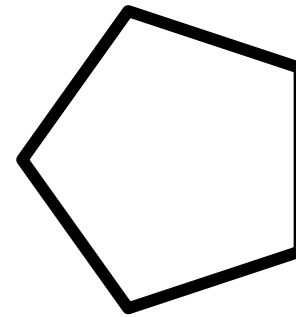
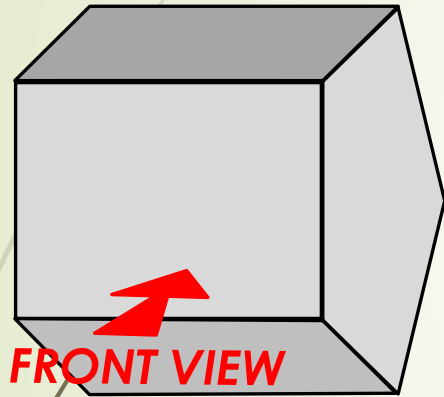
Question:

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

1. A front view
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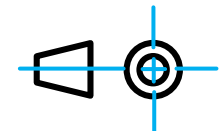
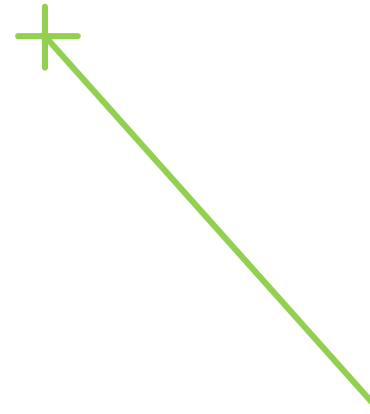
Given:

A pentagonal prism

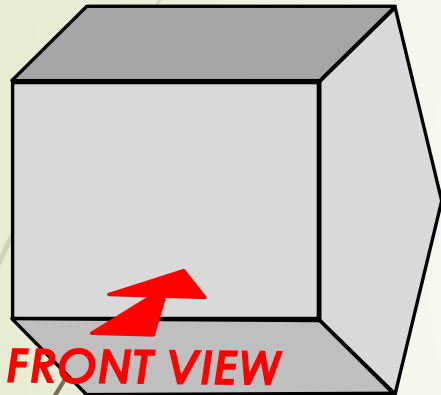
Question:

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

1. A front view
2. A left view
3. A top view



Application on polygons



The diagram shows the orthographic projection of a pentagonal prism. On the left, the front view is a rectangle with a dashed blue line representing the hidden back edge. On the right, the left view is a pentagon. Green projection lines connect the two views. A blue crosshair symbol is at the bottom right.

Given:
A pentagonal prism

Question:
In F.A.O.P. draw...

1. A front view
2. A left view
3. A top view