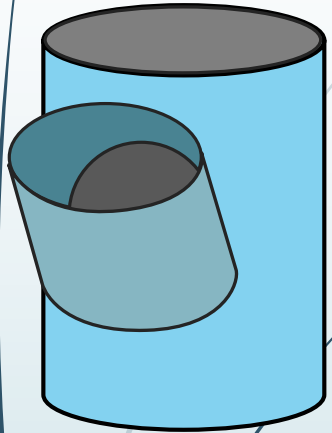


Interpenetrations

EGD Grade 11 & 12

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

Interpenetrations



Question 2: Interpenetration

Given:

- * The incomplete front view and top view of a cylinder at 45° that has to fit around another cylinder. The axes of both cylinders lie in a common vertical plane.
- * Auxiliary view of the branch cylinder.

Instructions:

Draw, to scale 1:1, the following:

1. The given top view.
2. The complete front view clearly showing the curve of interpenetration.
3. The complete left view.
3. Develop the main cylinder and to show the interpenetration clearly.
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- * Show ALL hidden detail.
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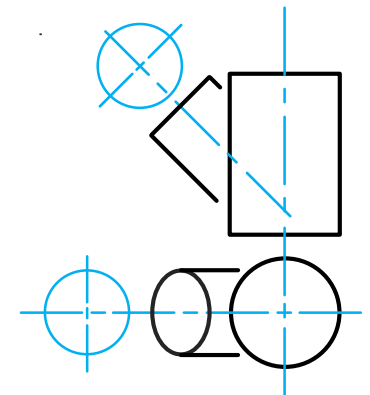
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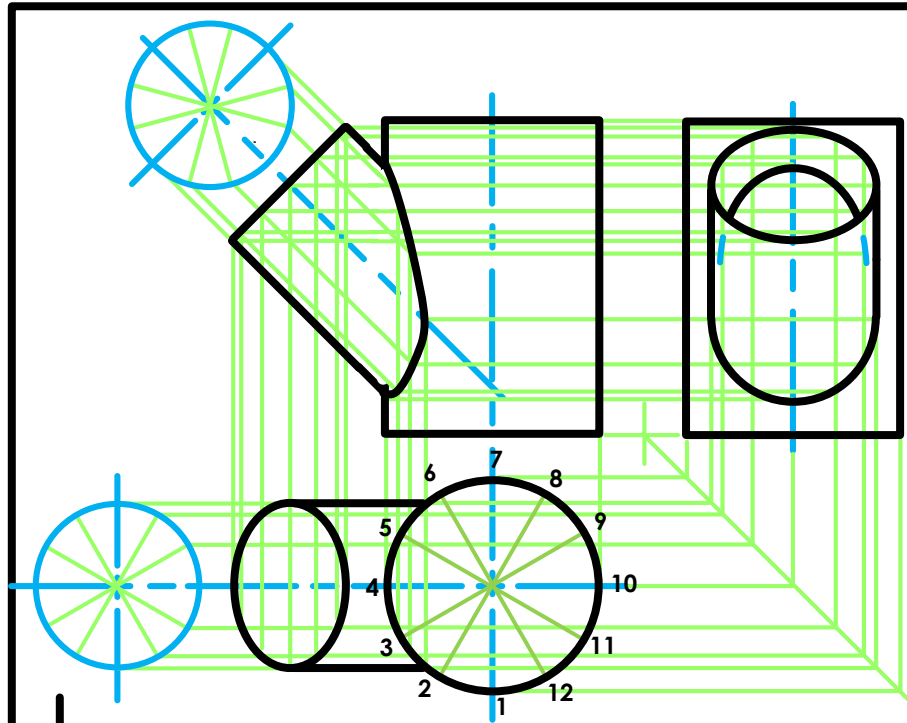
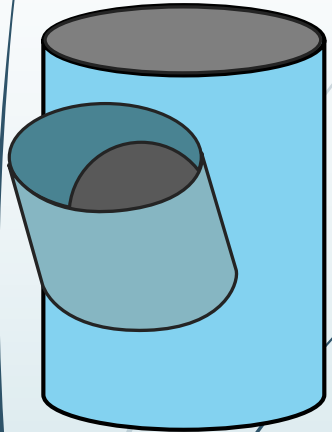
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Interpenetrations



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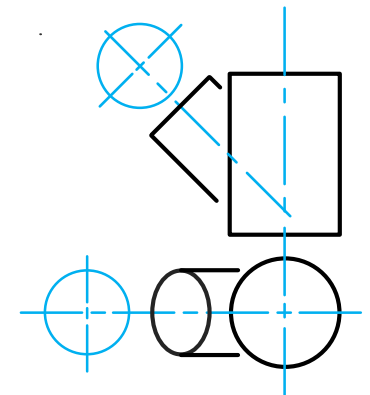
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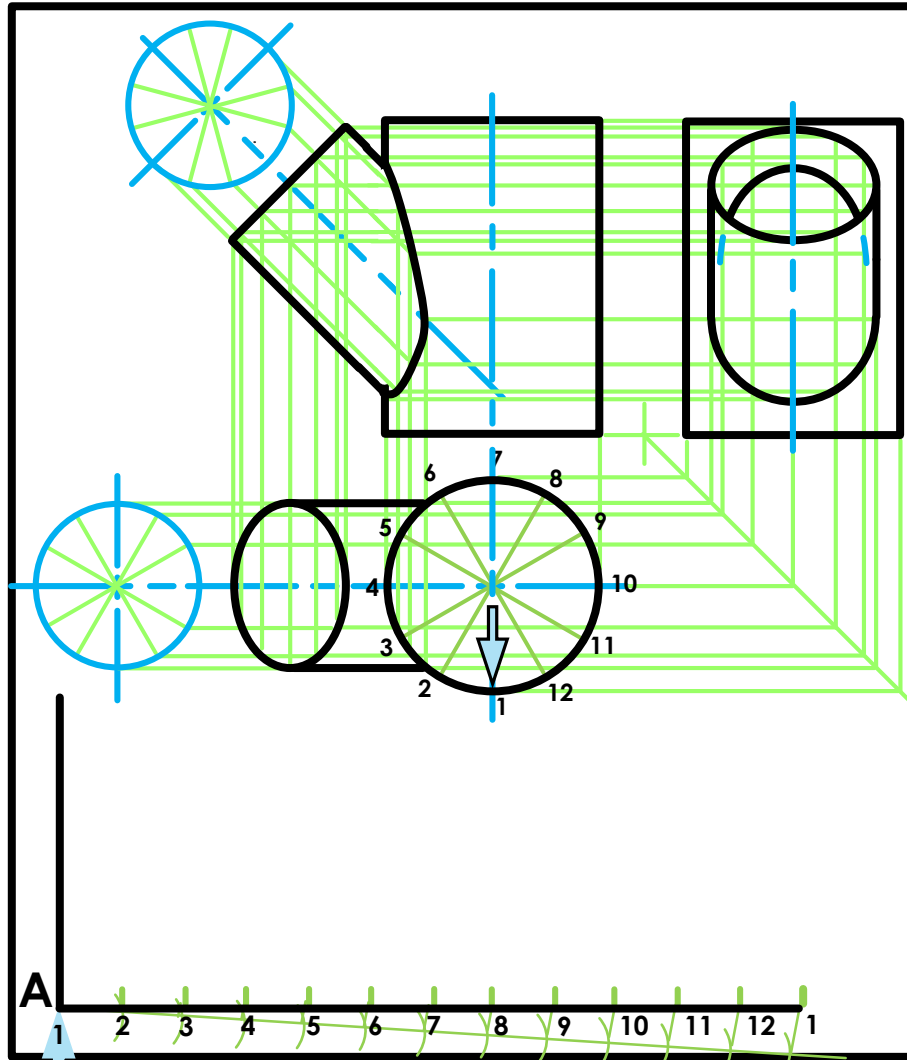
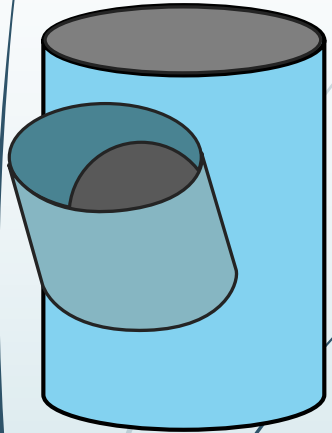
A



education

Department of Education
FREE STATE PROVINCE

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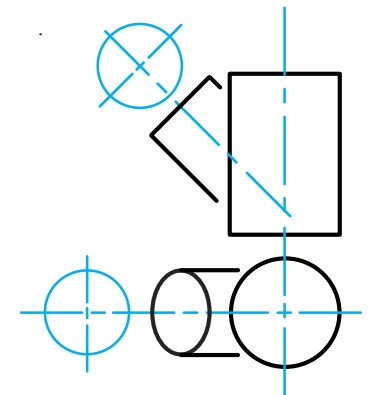
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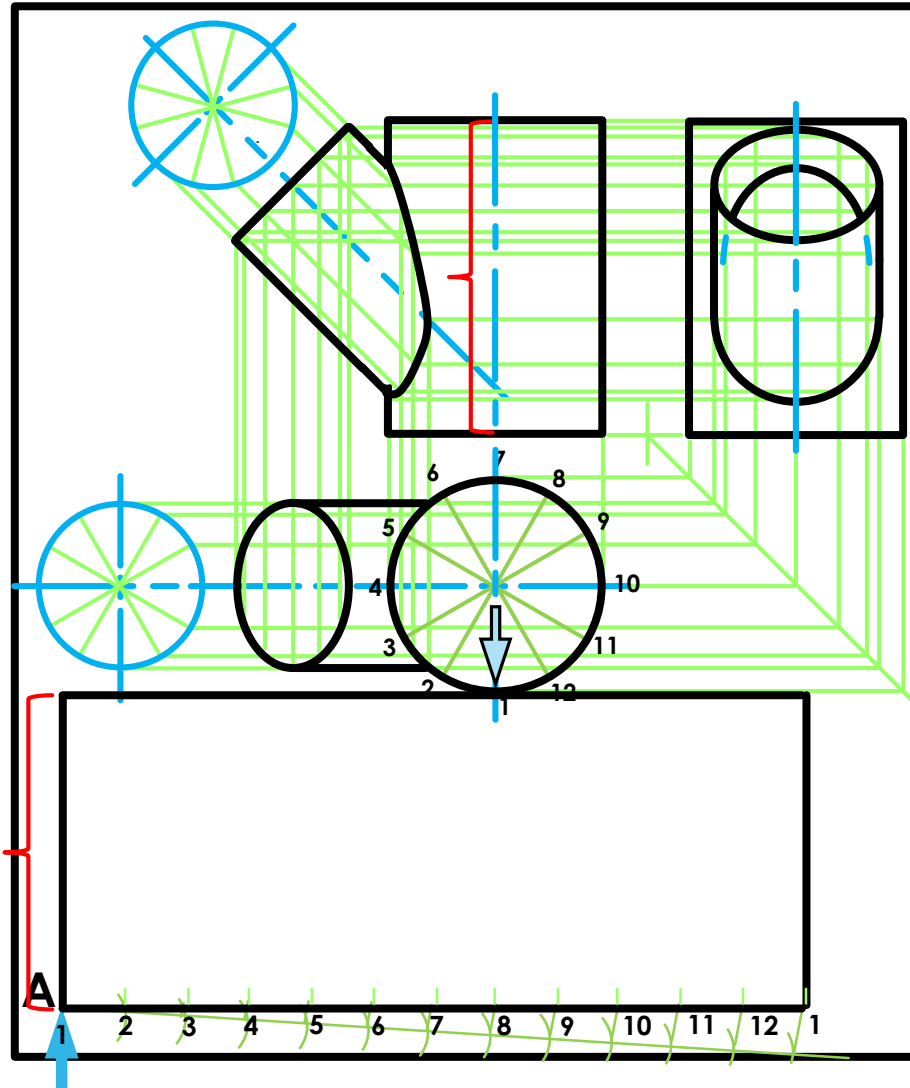
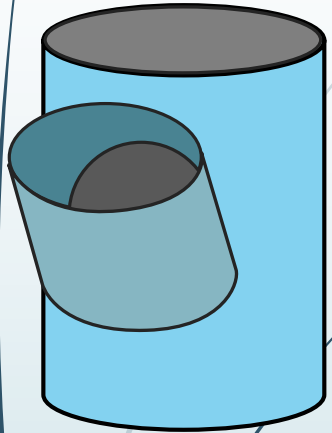
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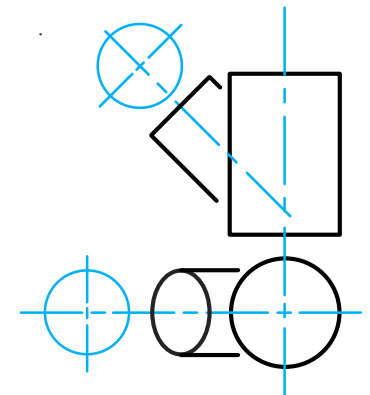
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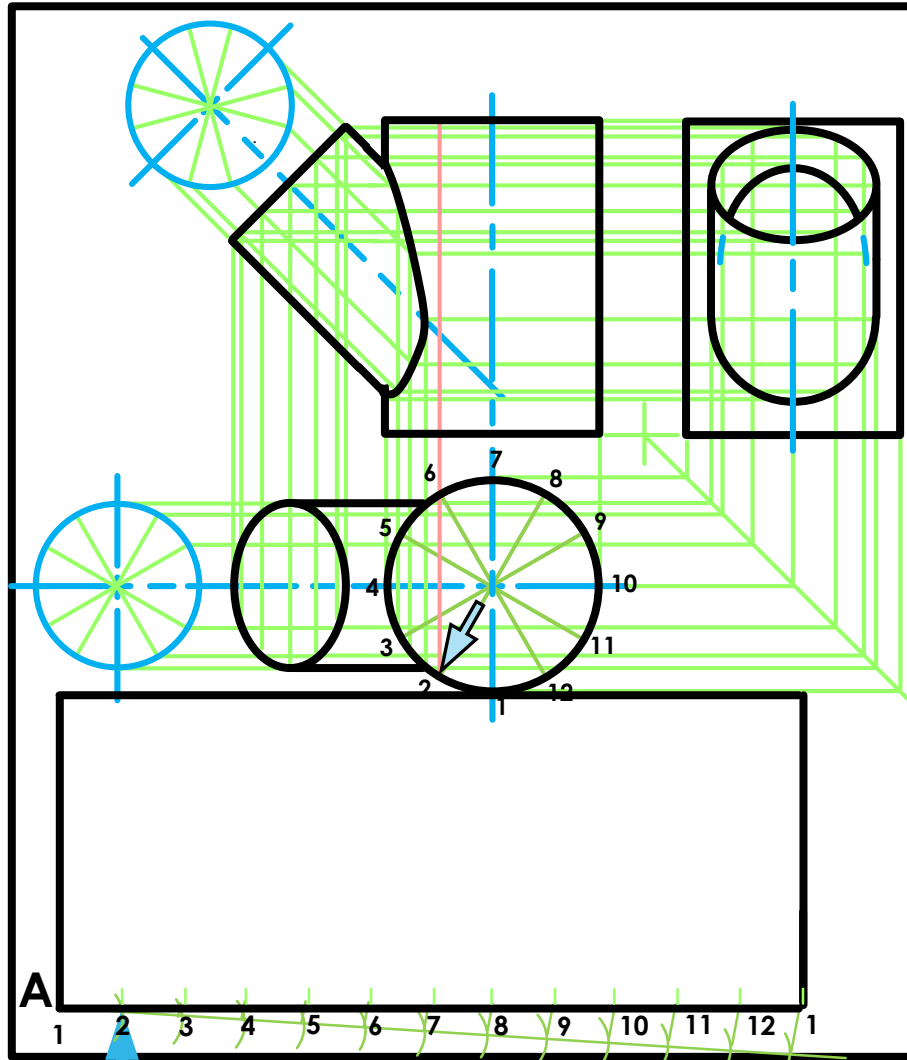
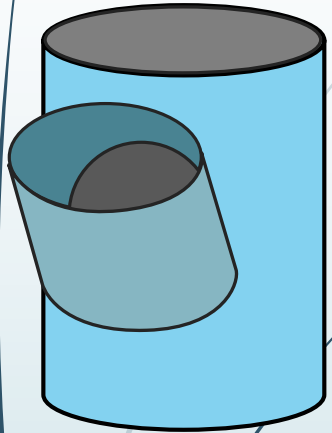
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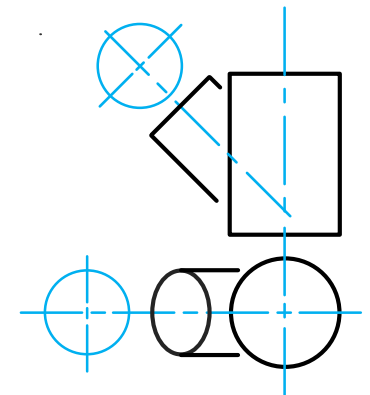
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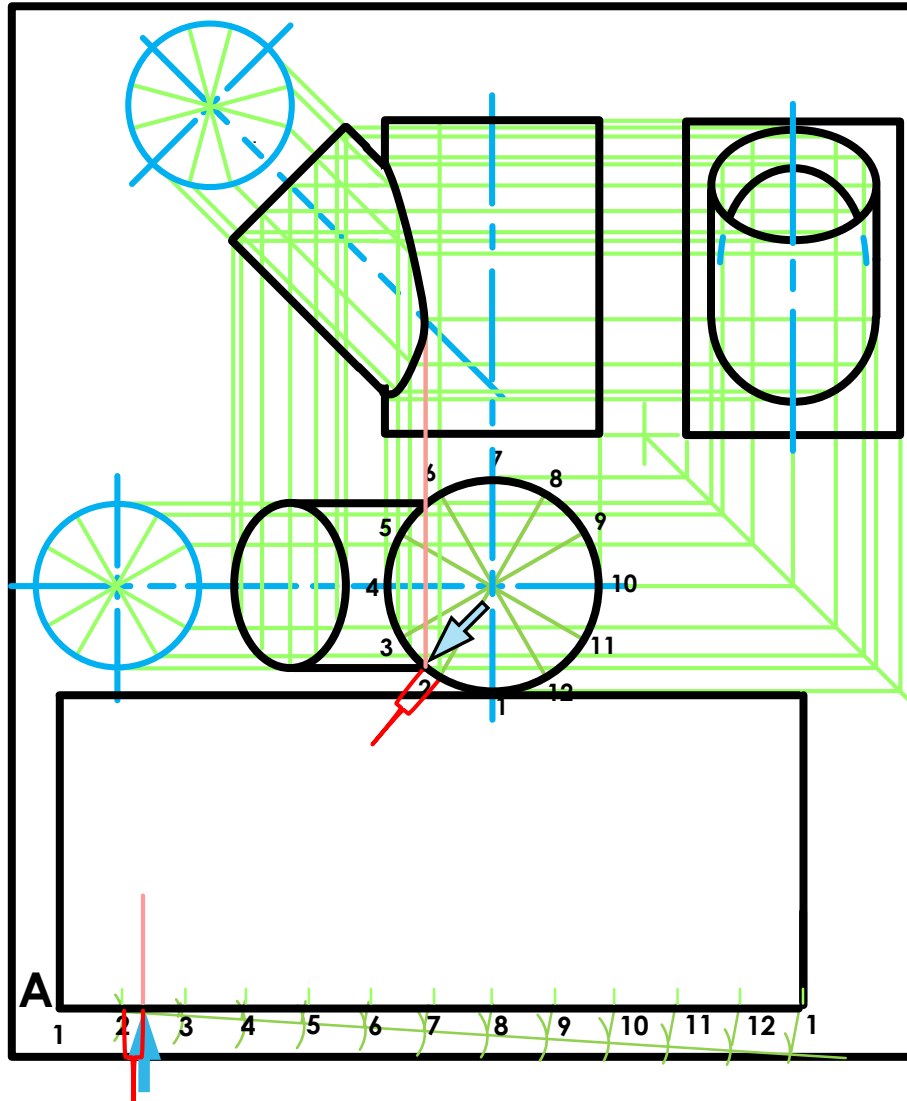
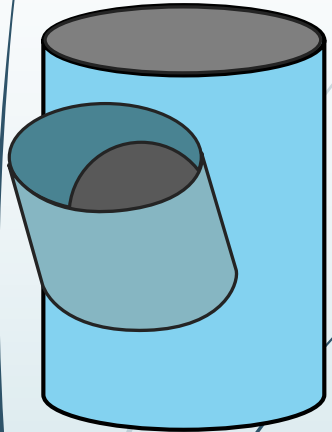
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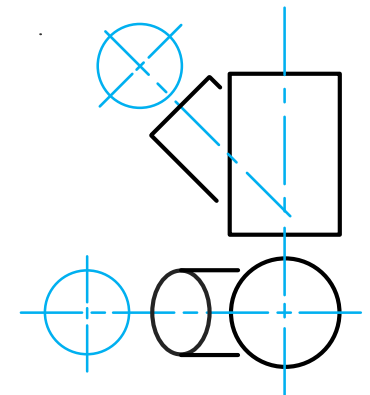
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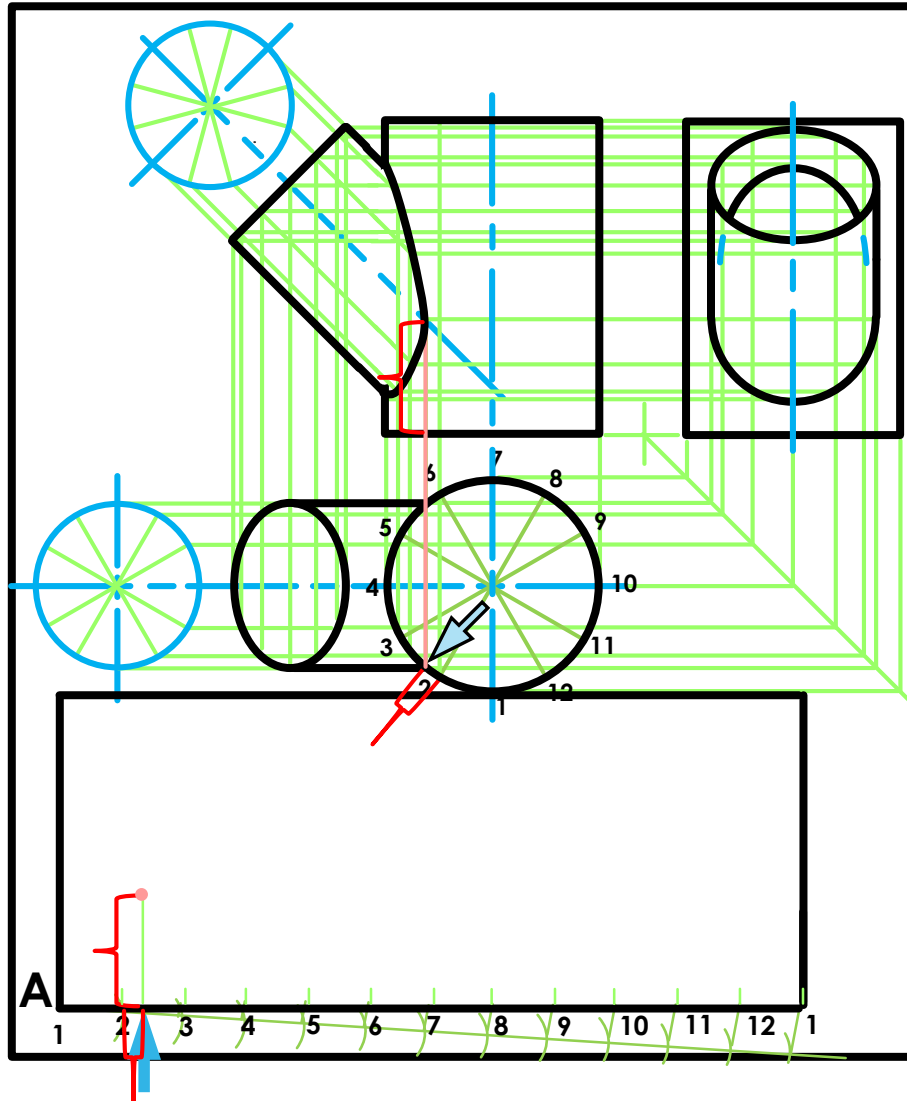
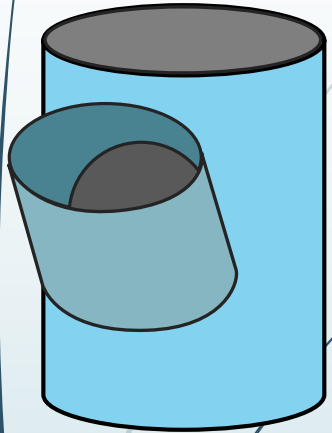
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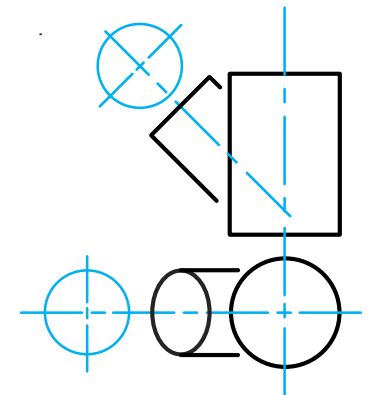
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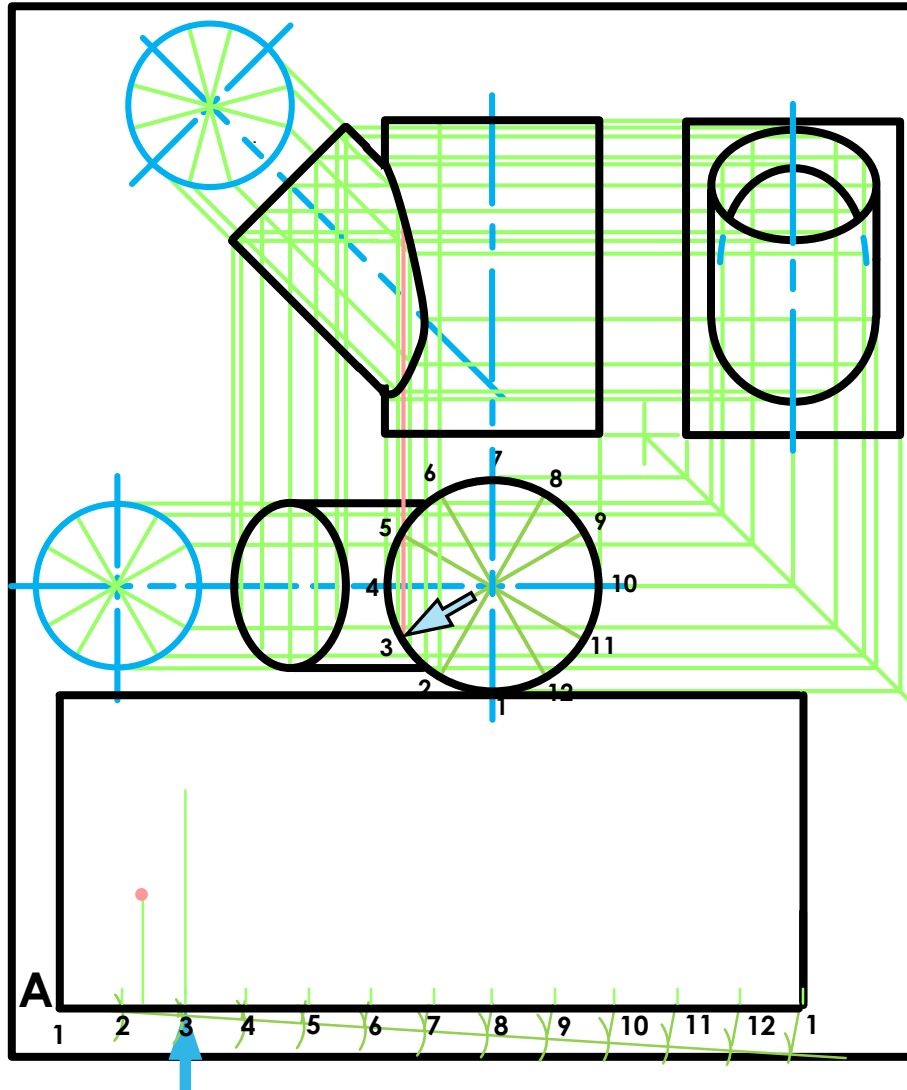
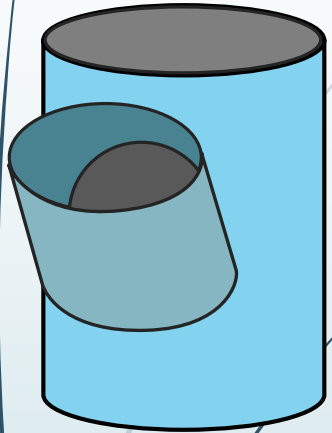
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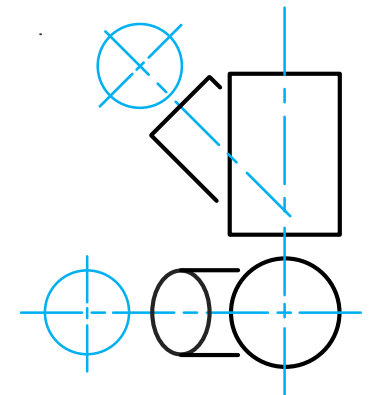
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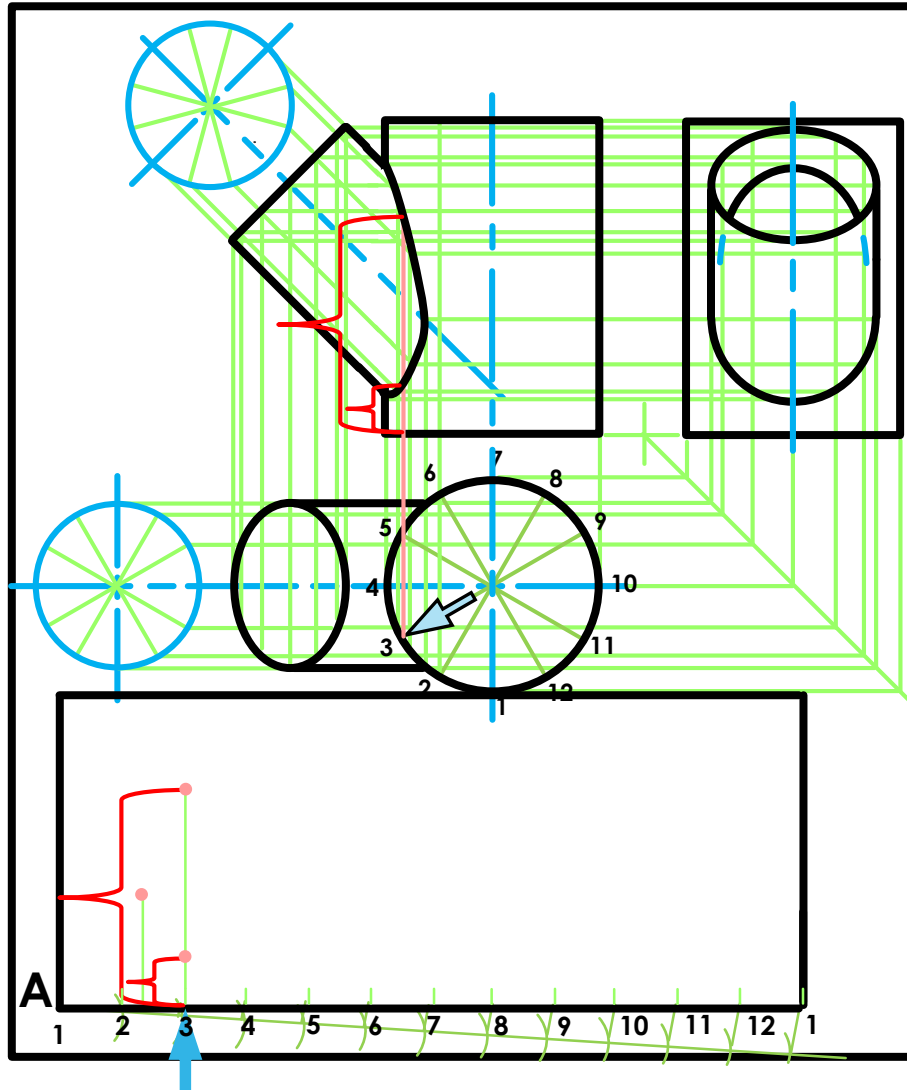
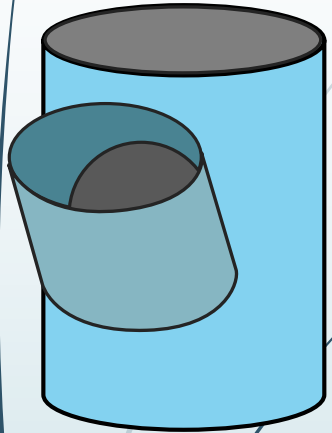
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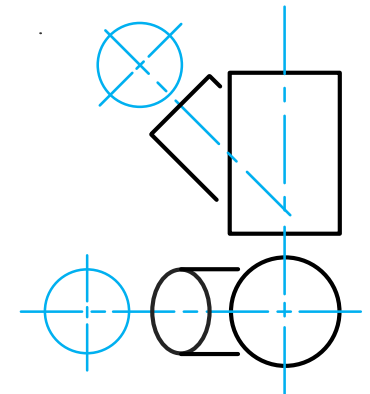
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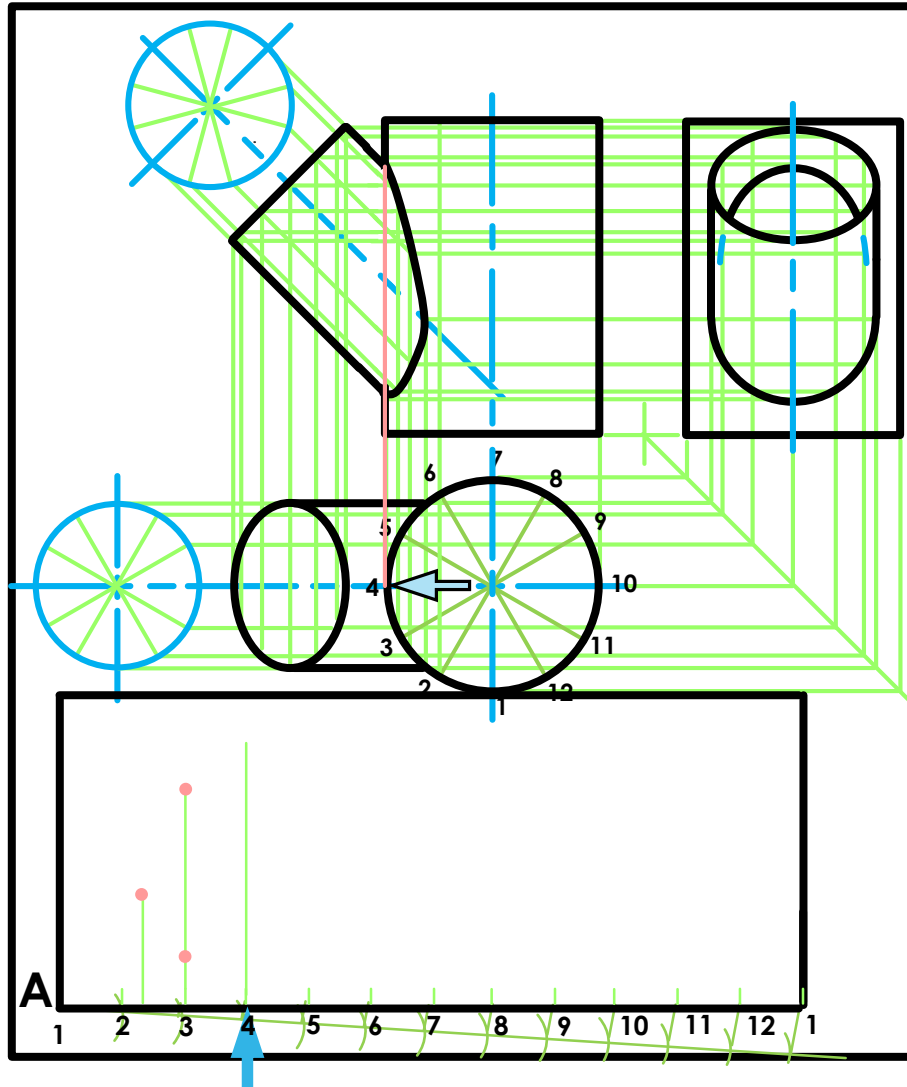
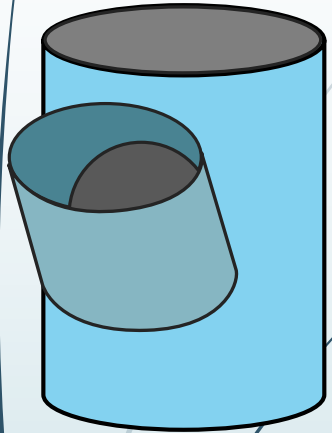
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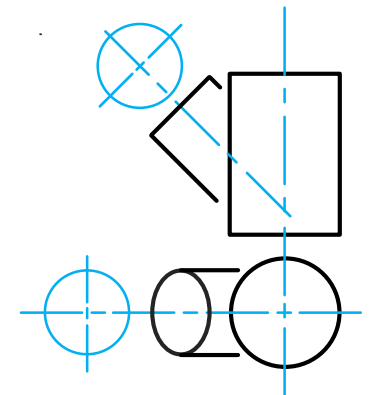
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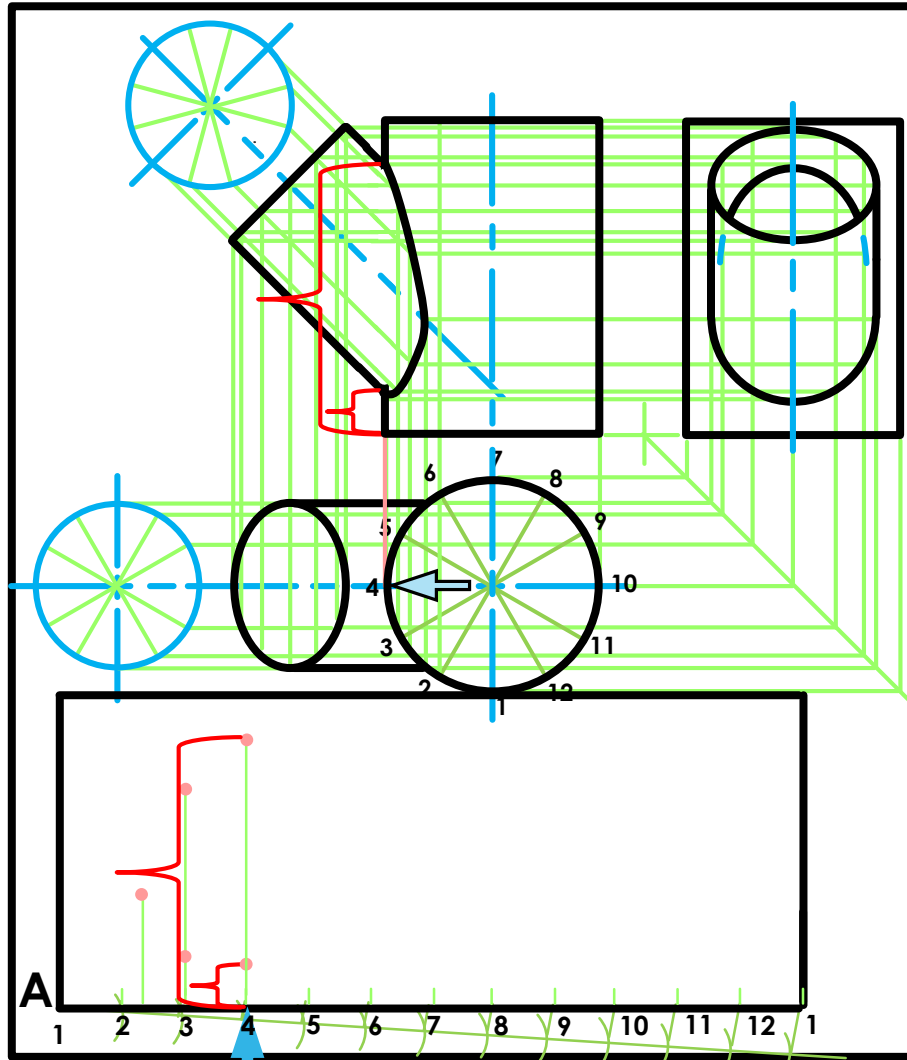
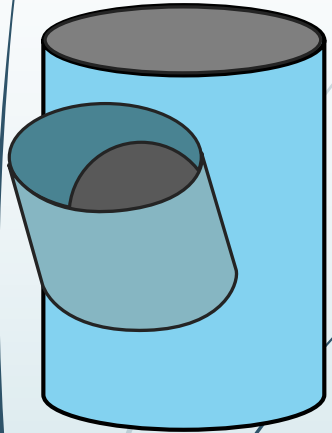
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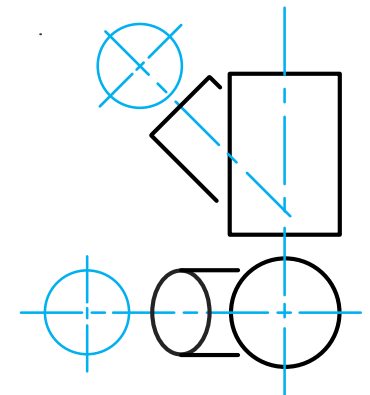
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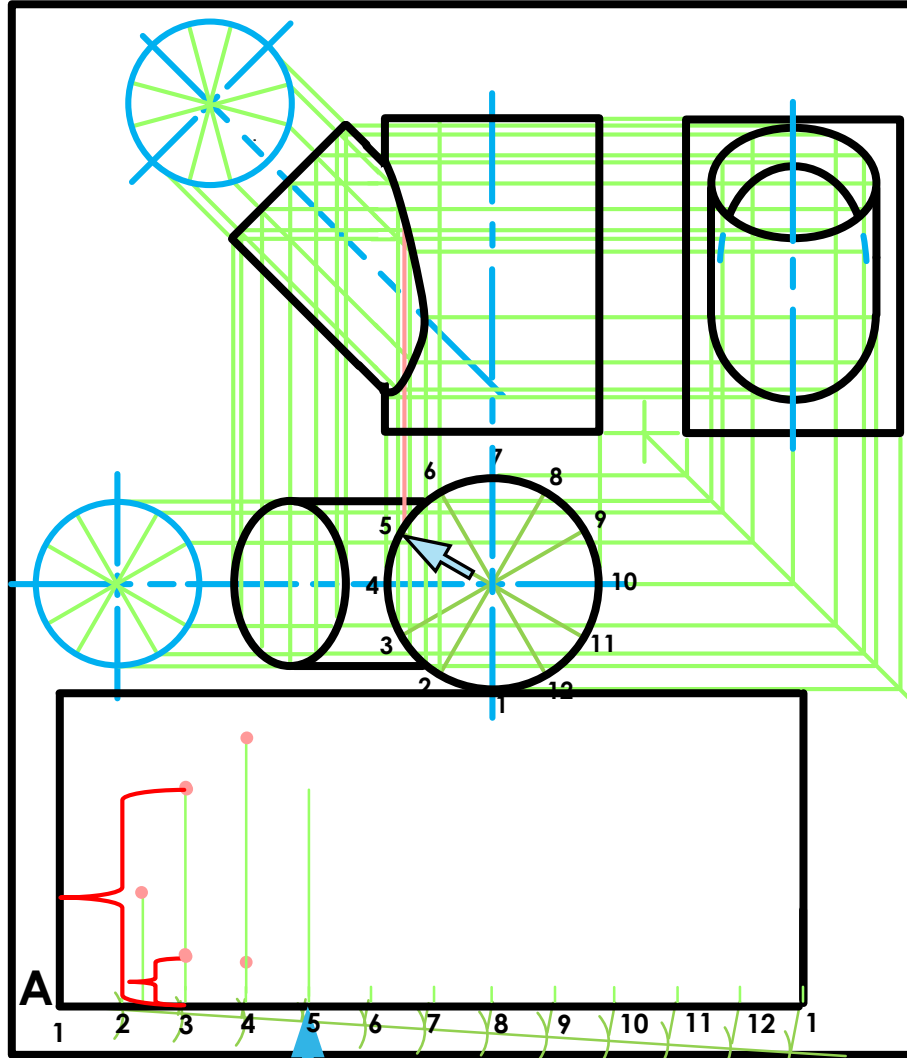
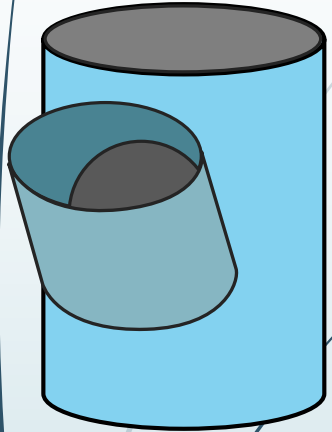
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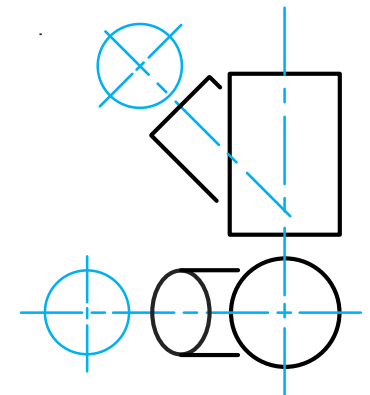
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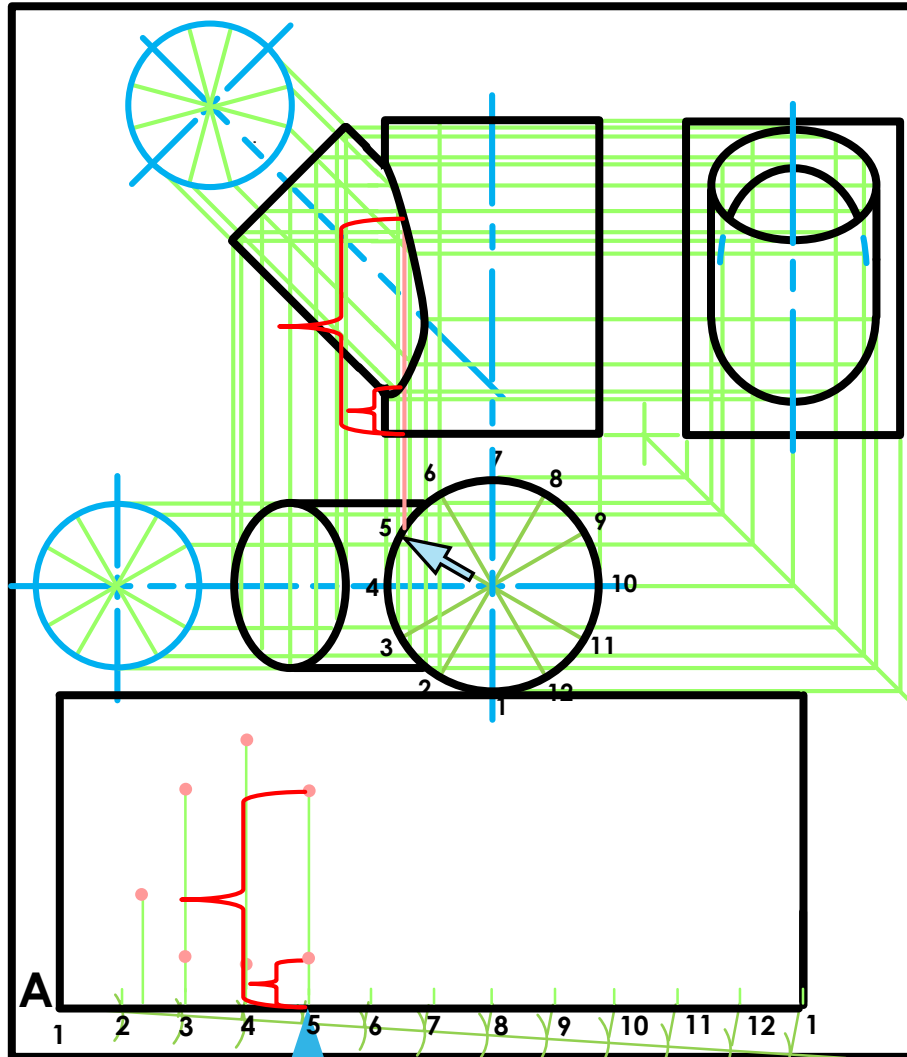
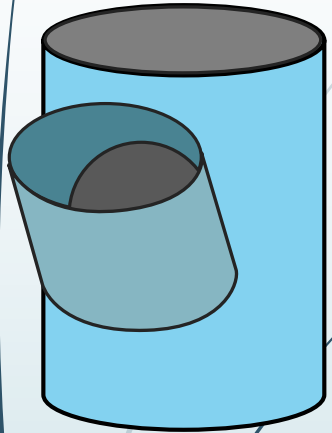
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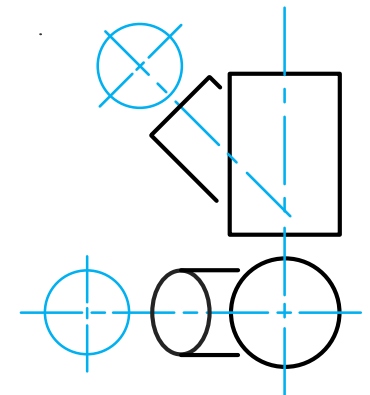
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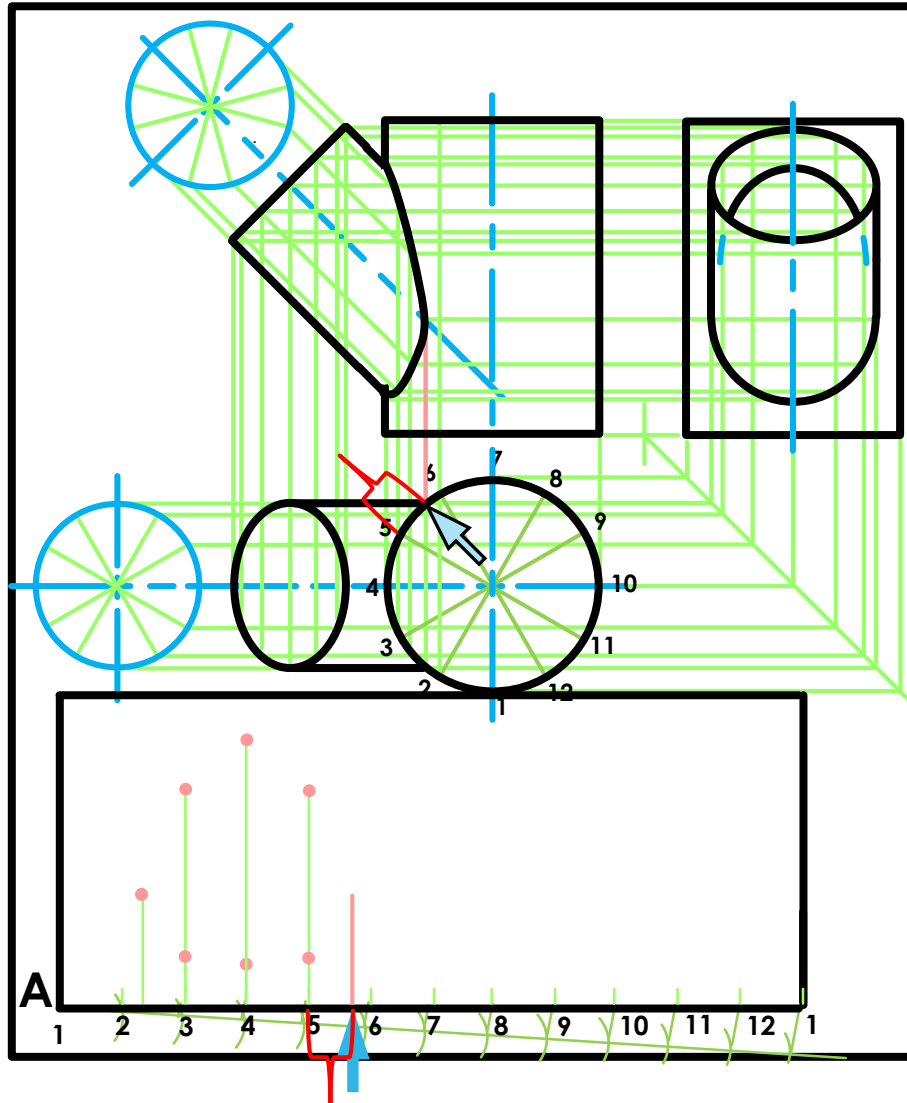
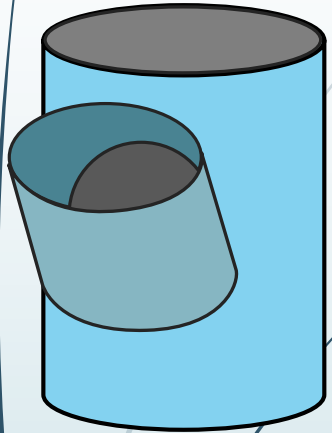
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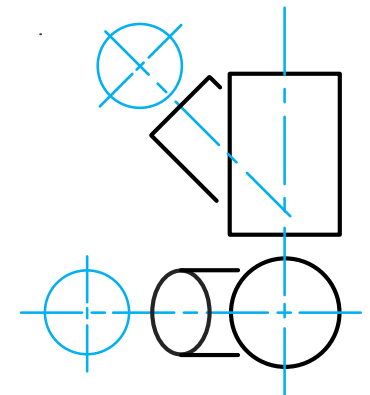
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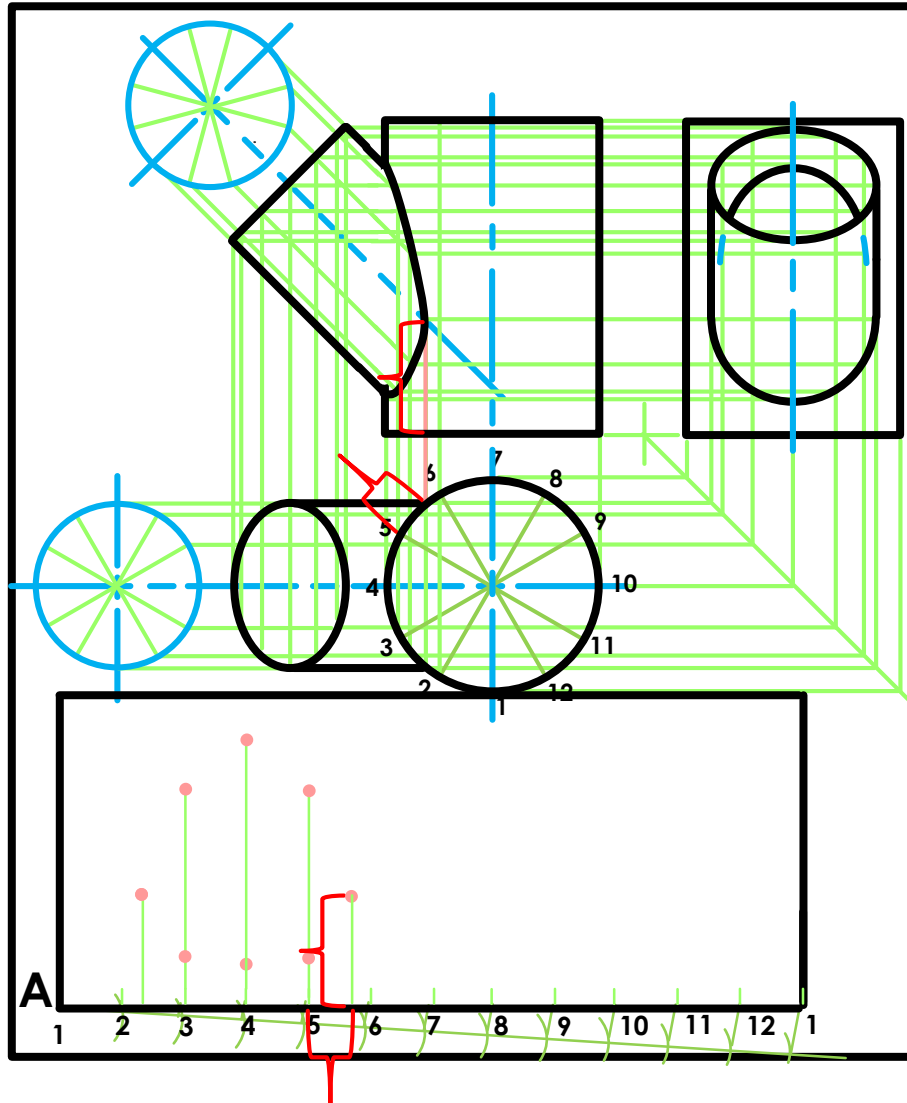
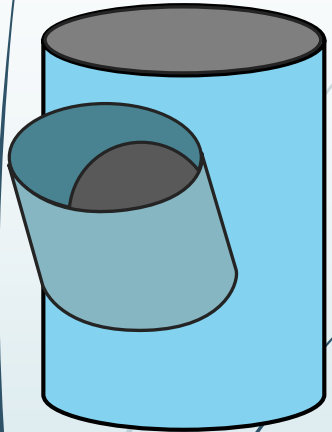
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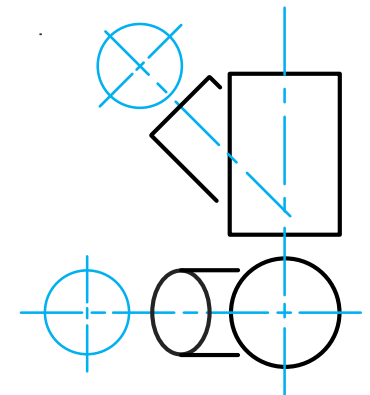
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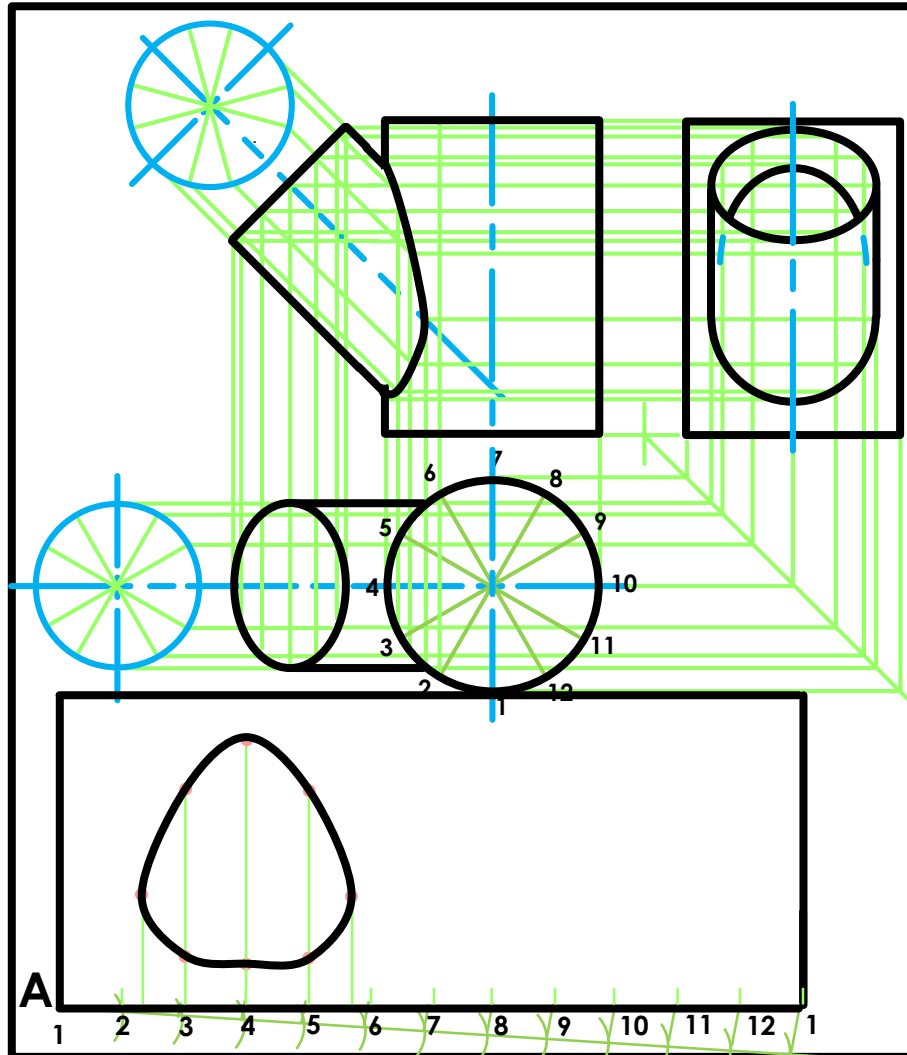
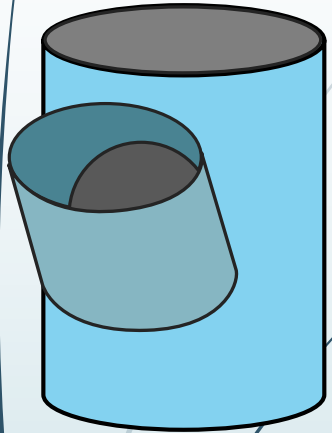
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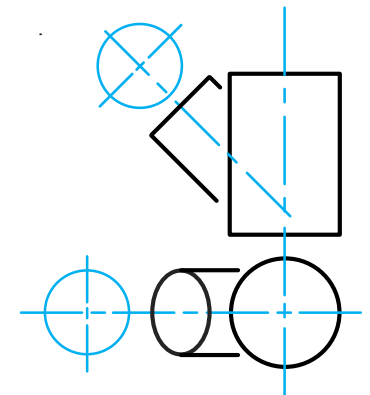
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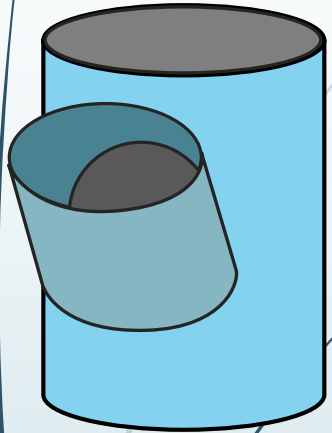
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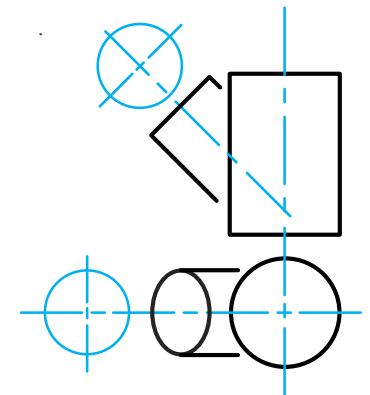
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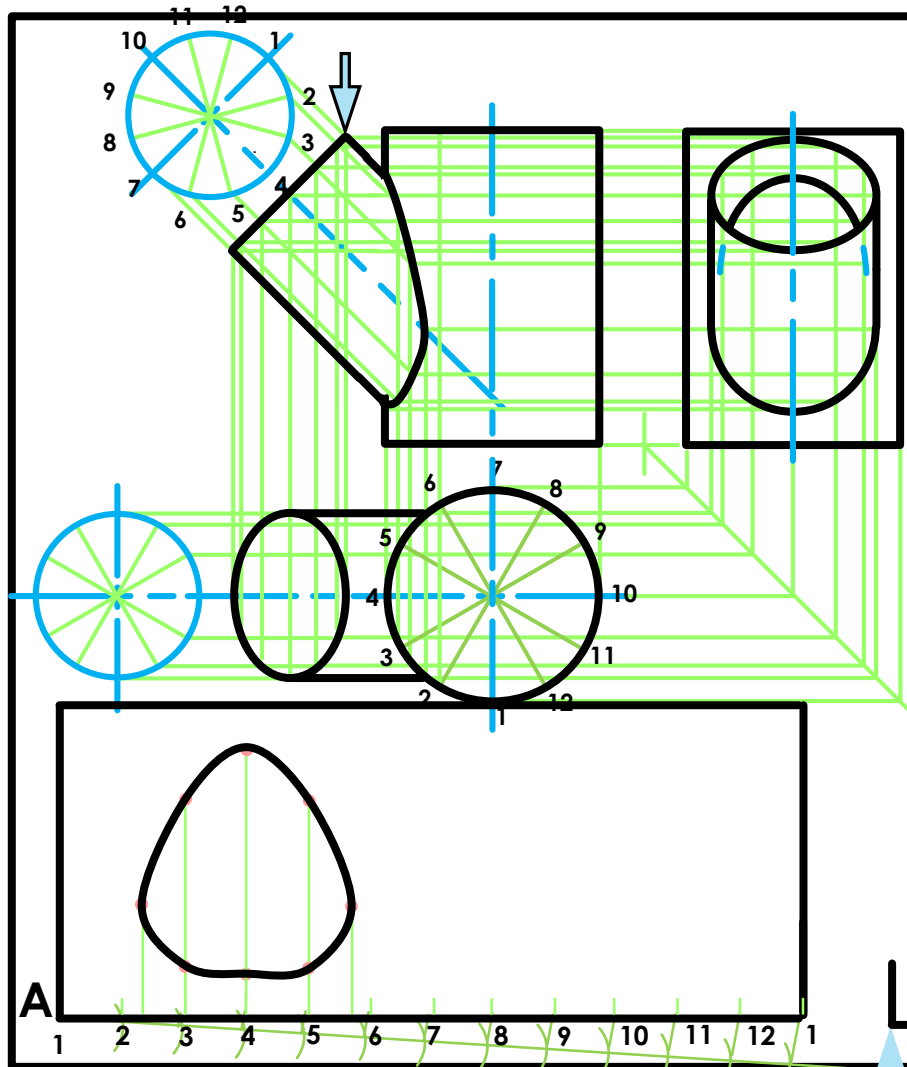
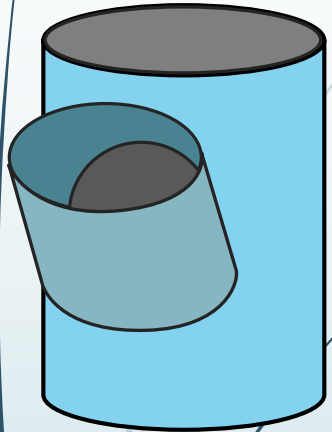
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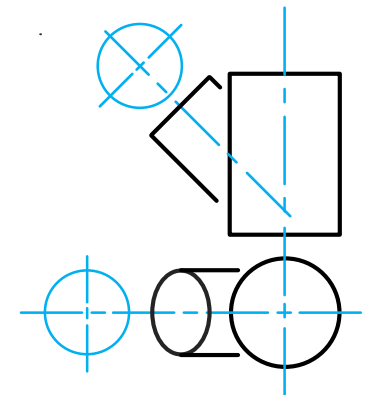
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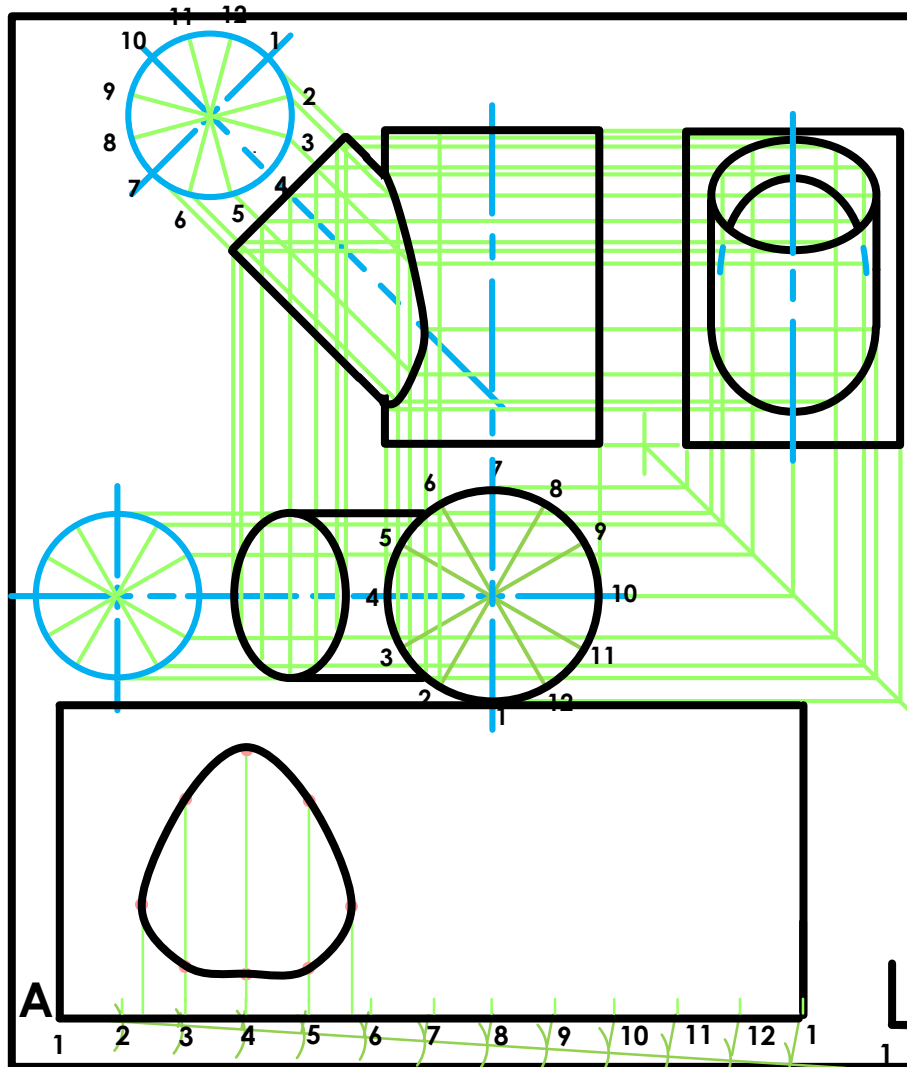
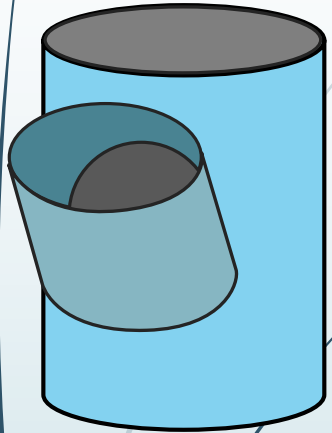
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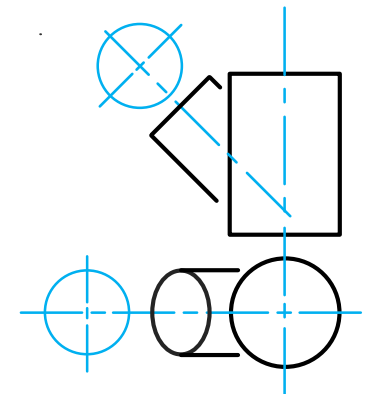
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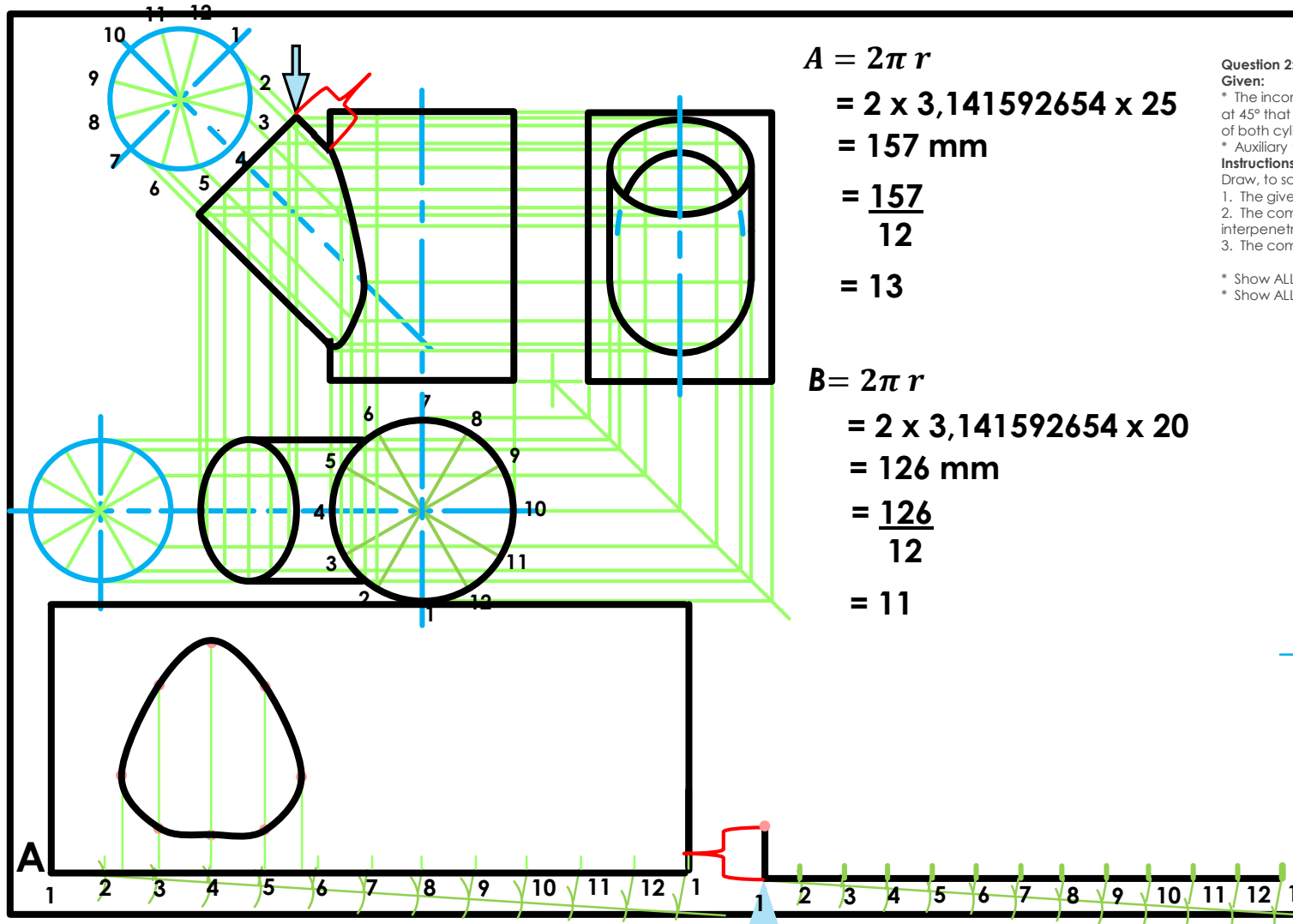
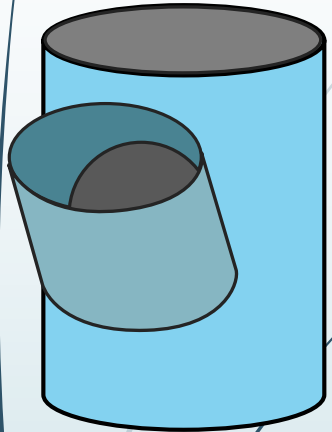
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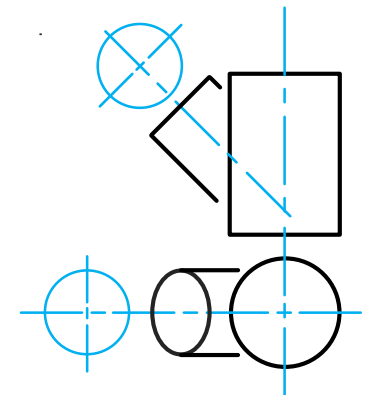
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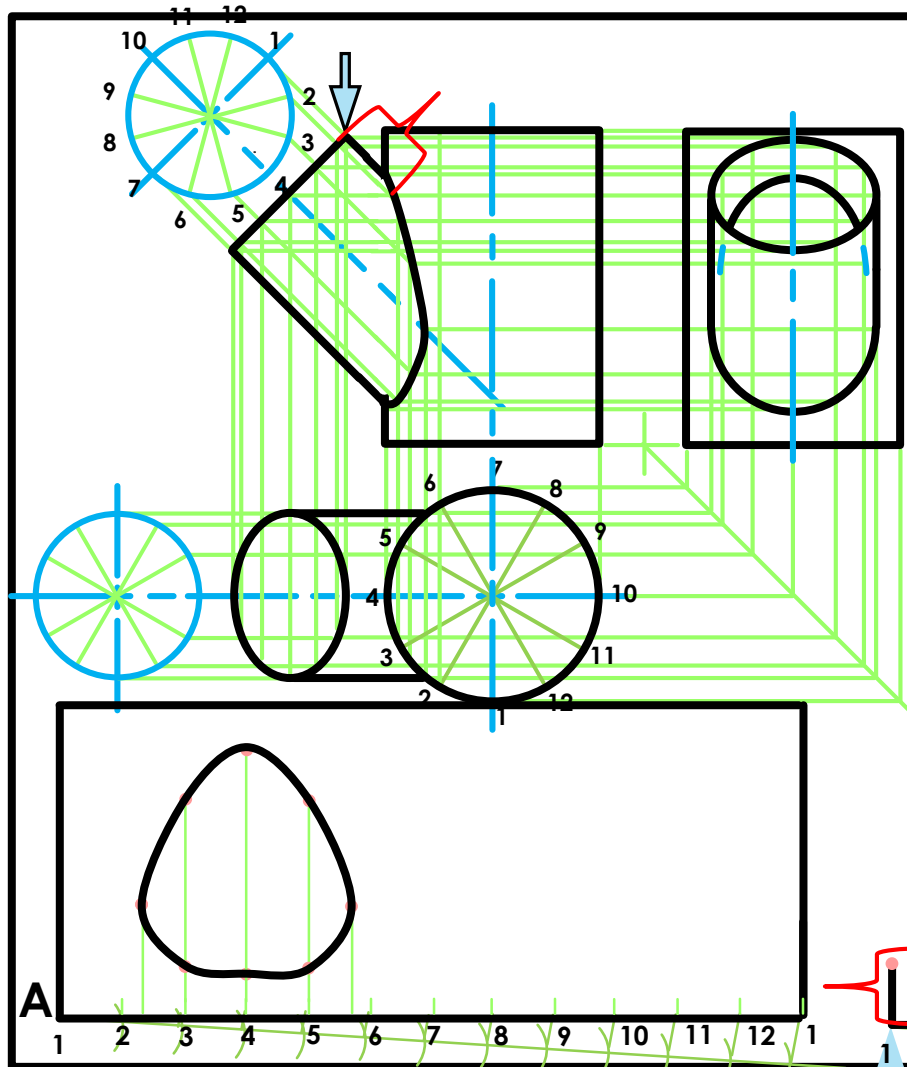
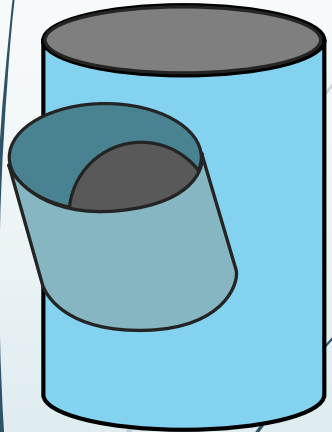
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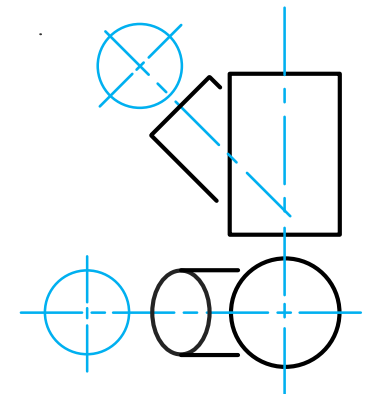
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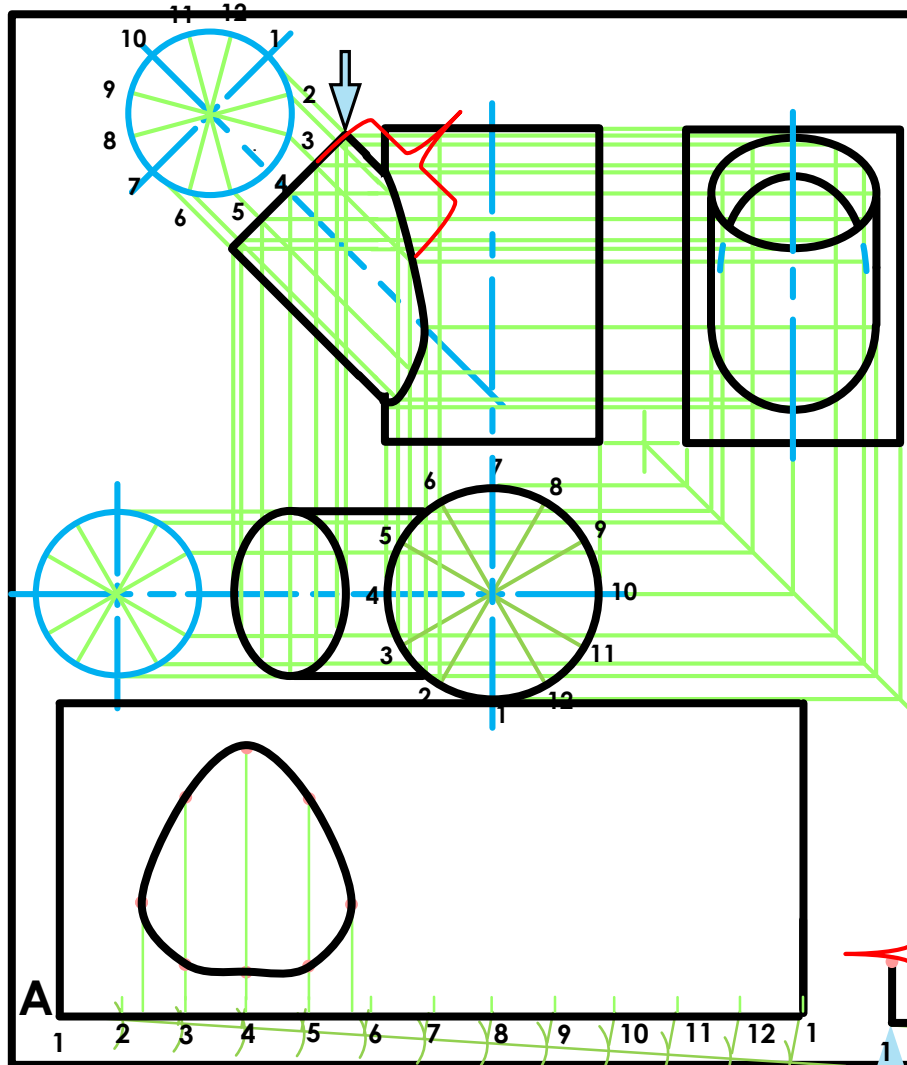
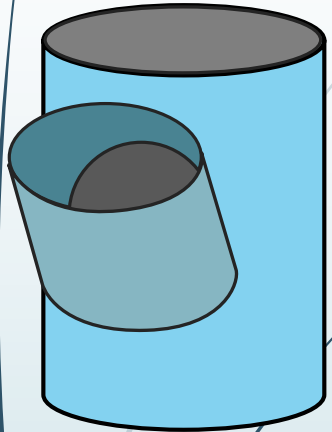
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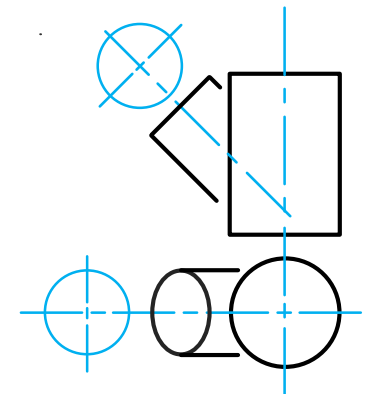
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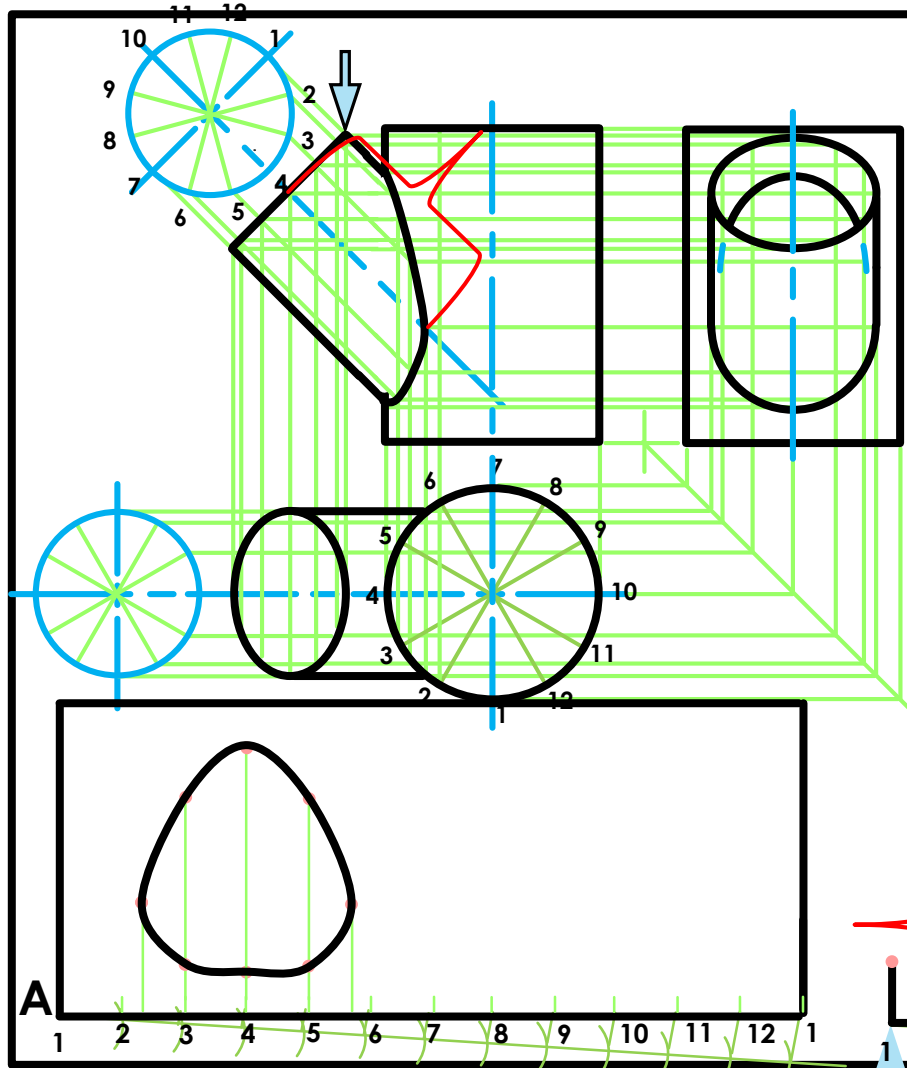
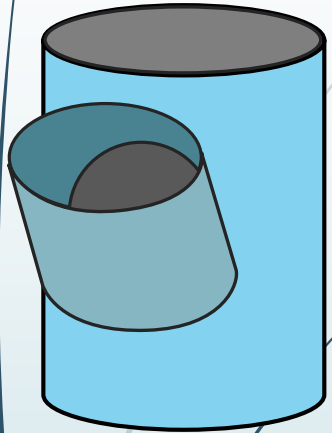
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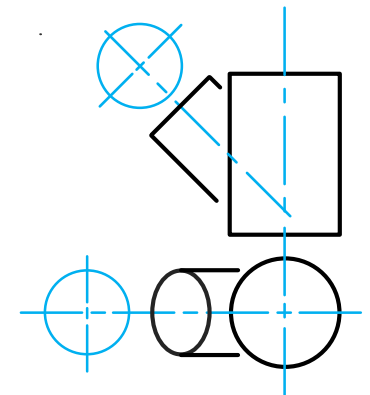
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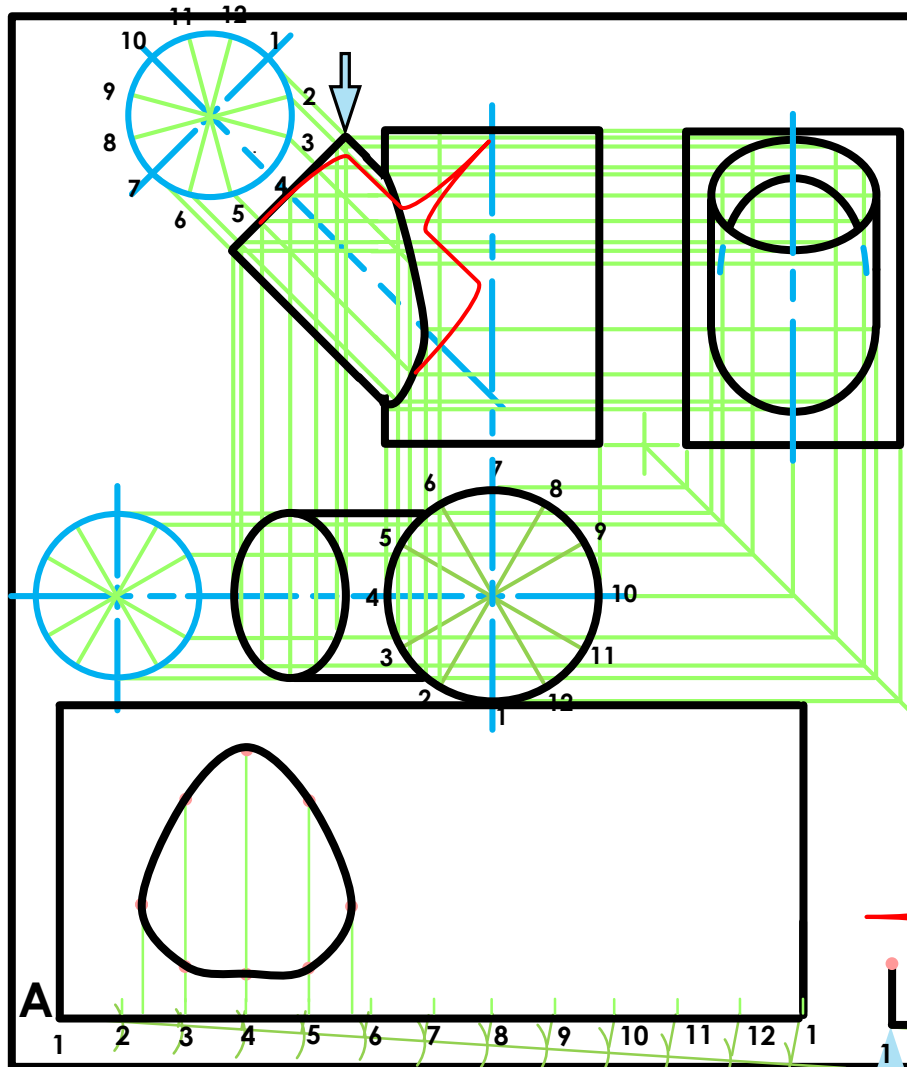
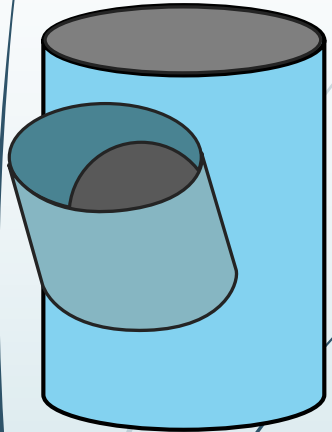
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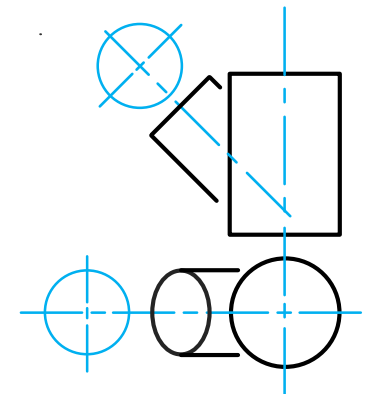
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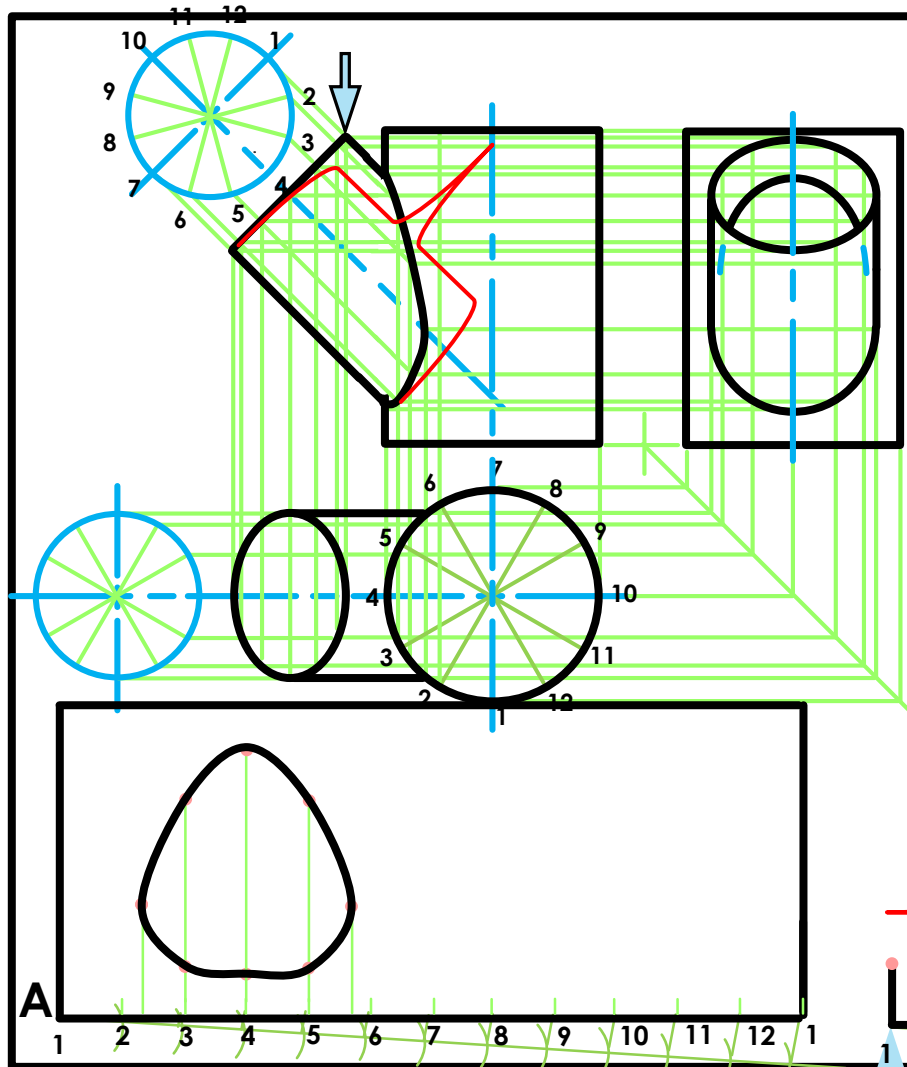
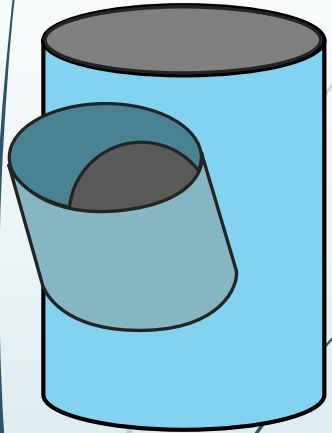
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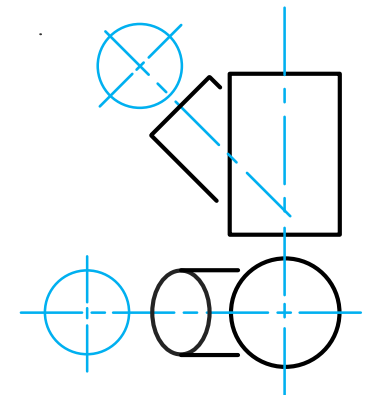
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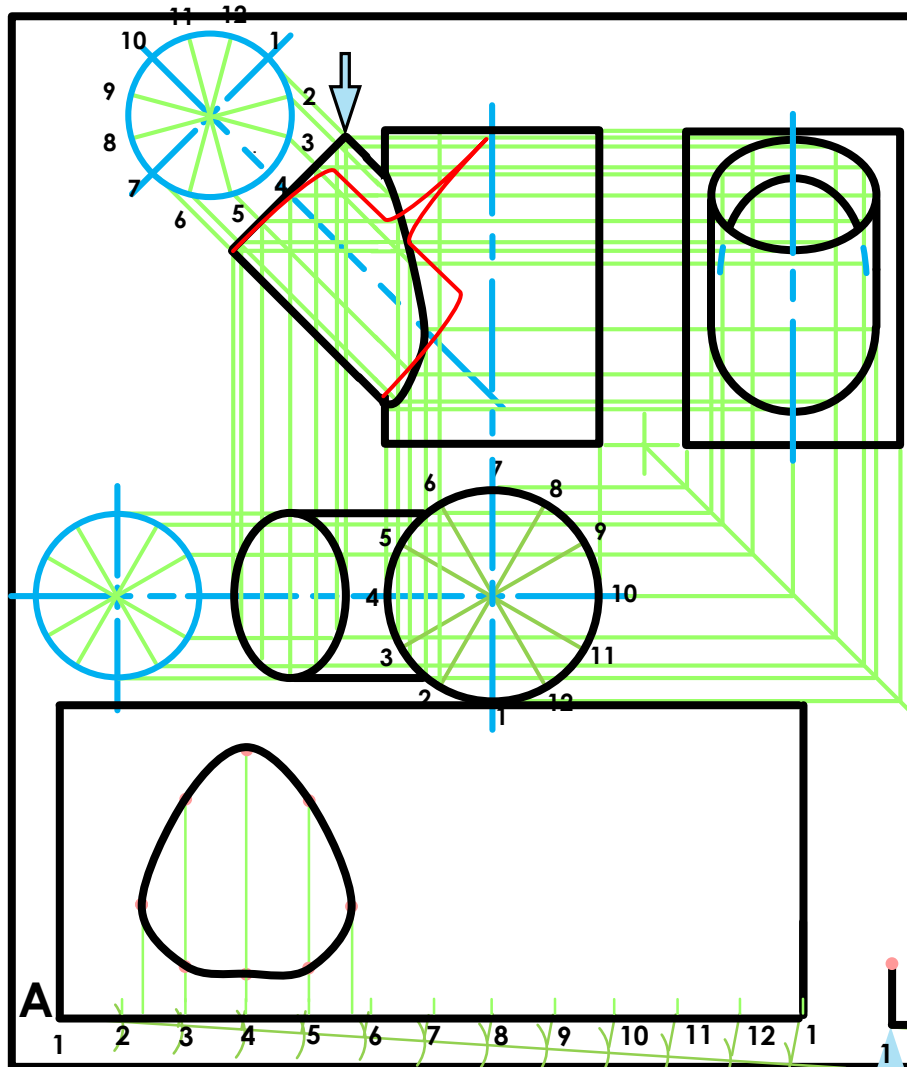
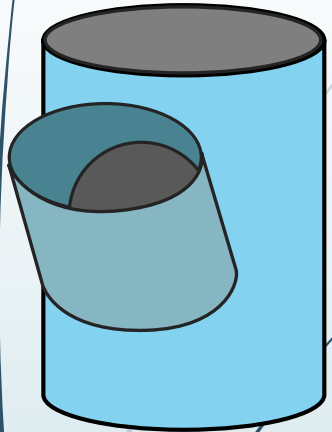
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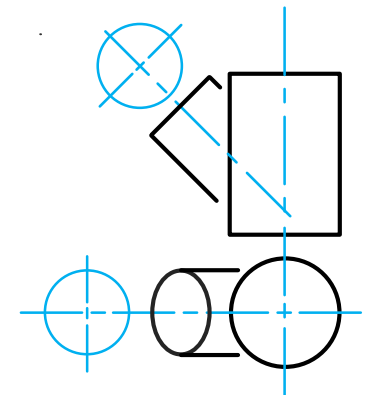
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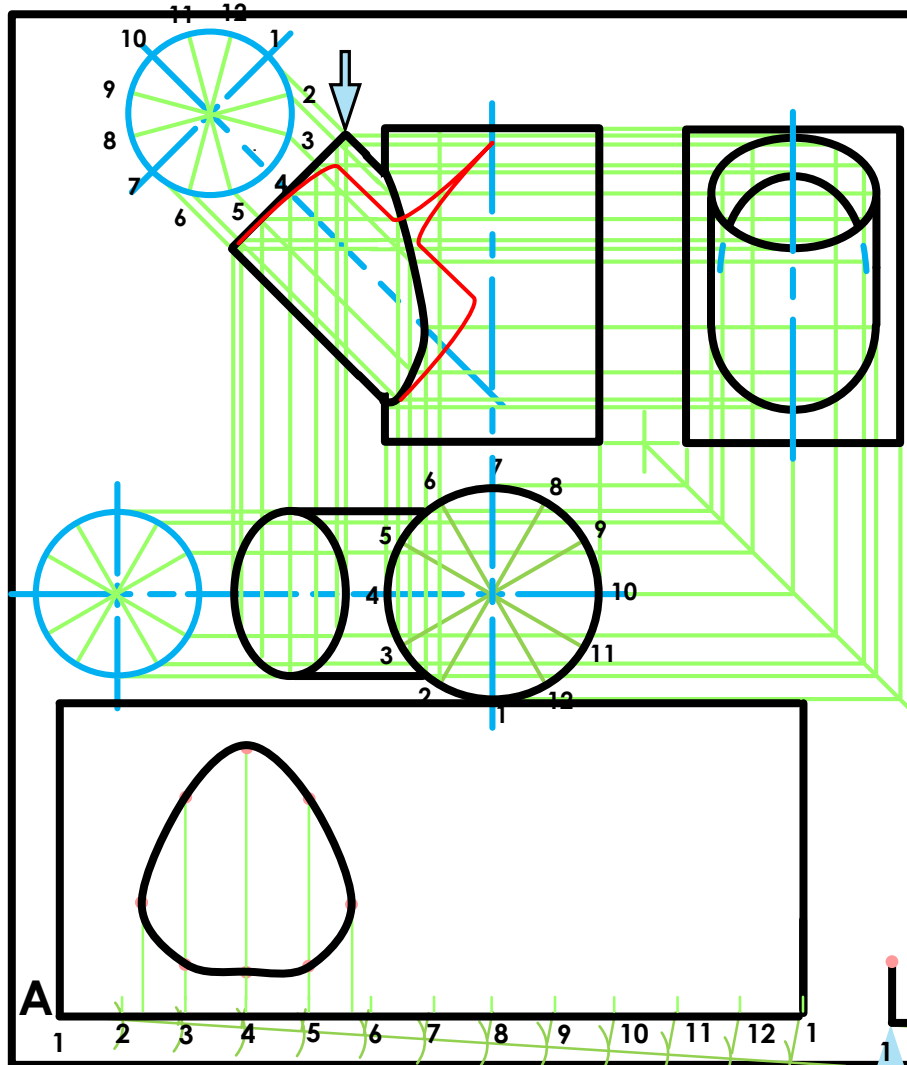
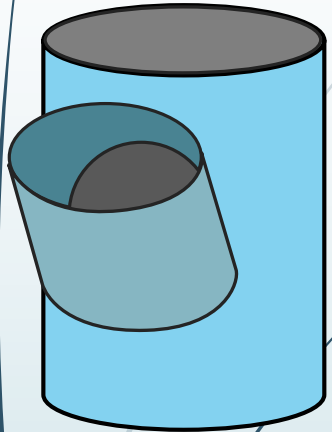
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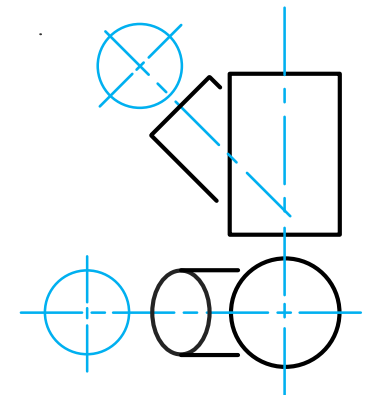
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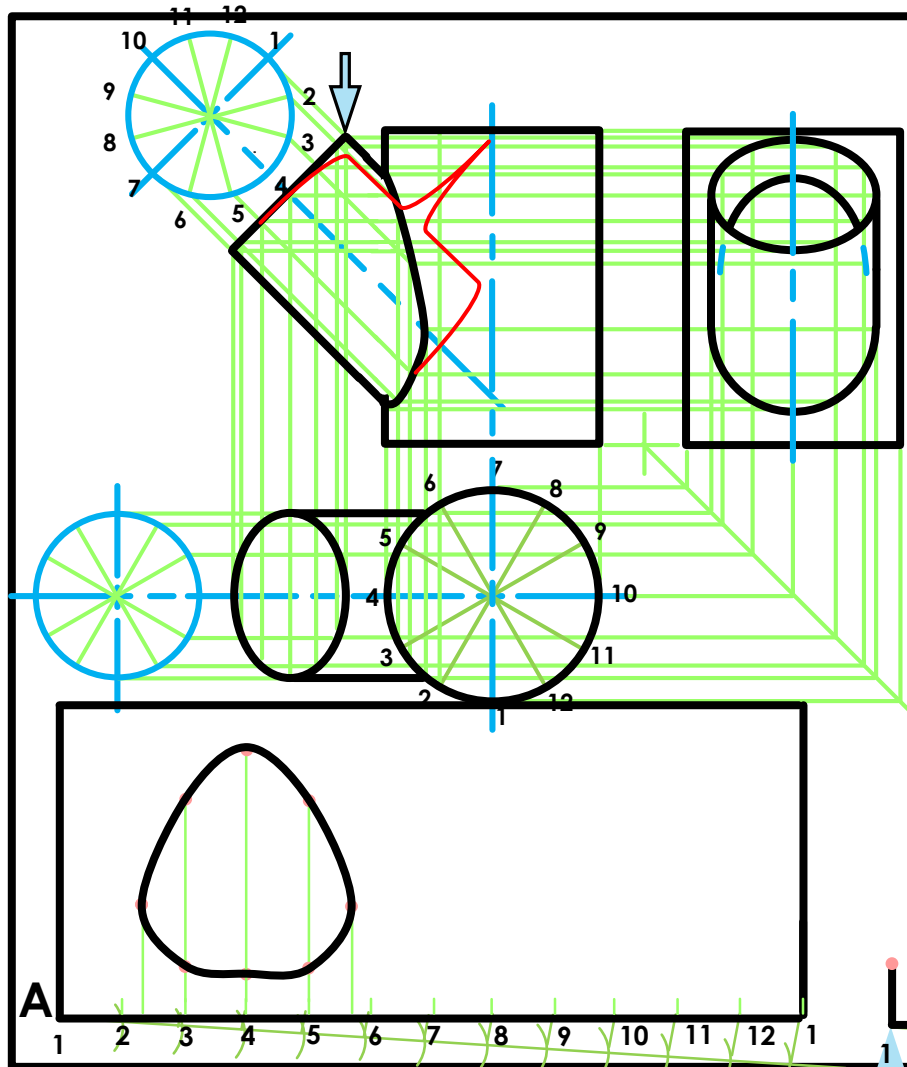
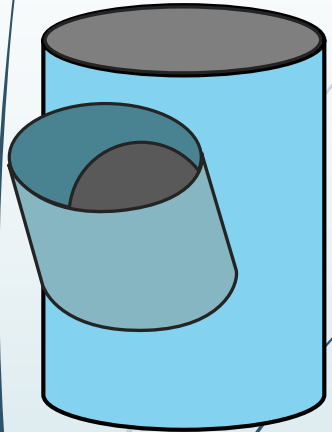
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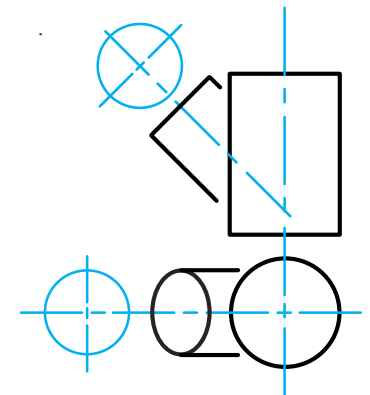
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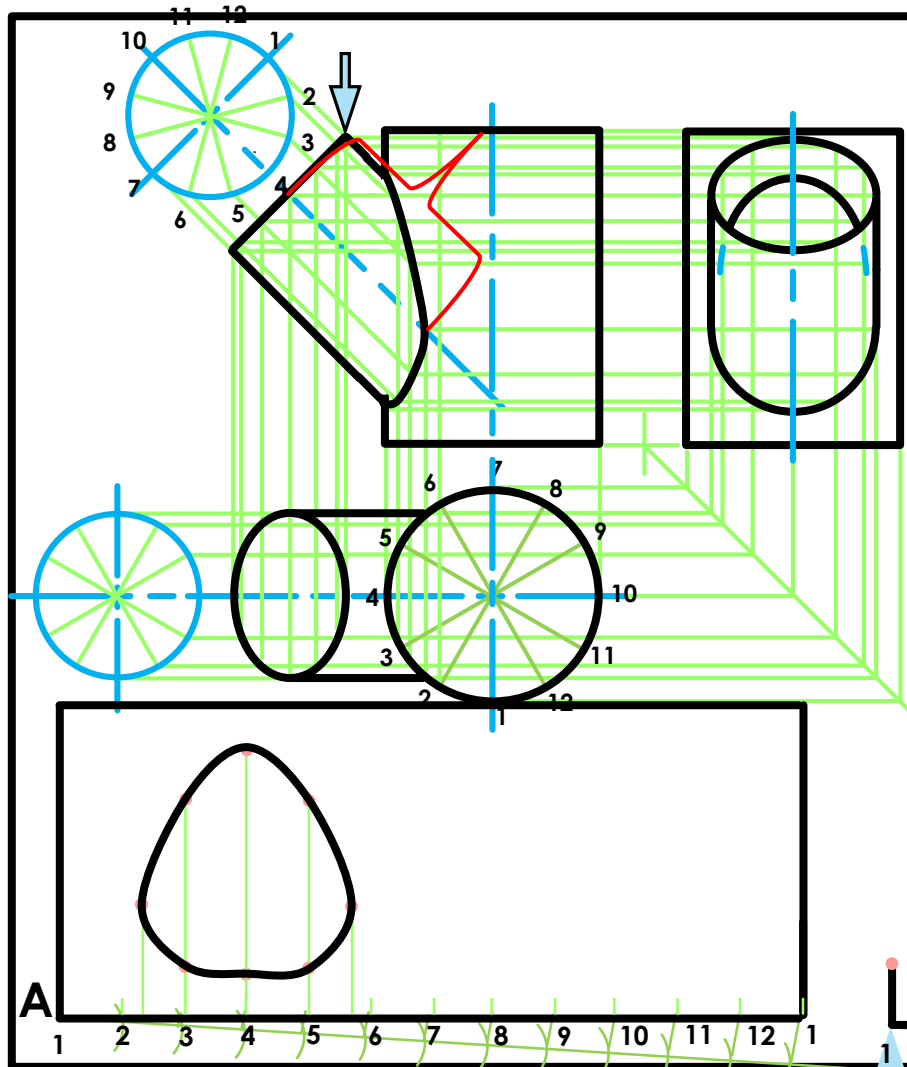
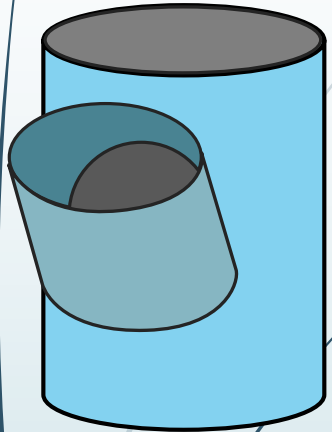
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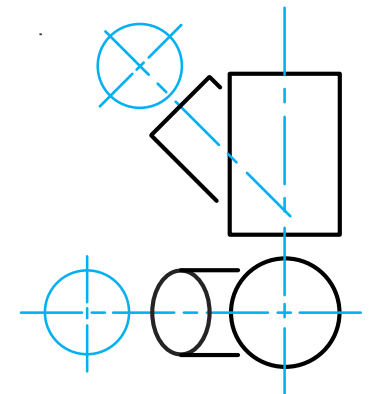
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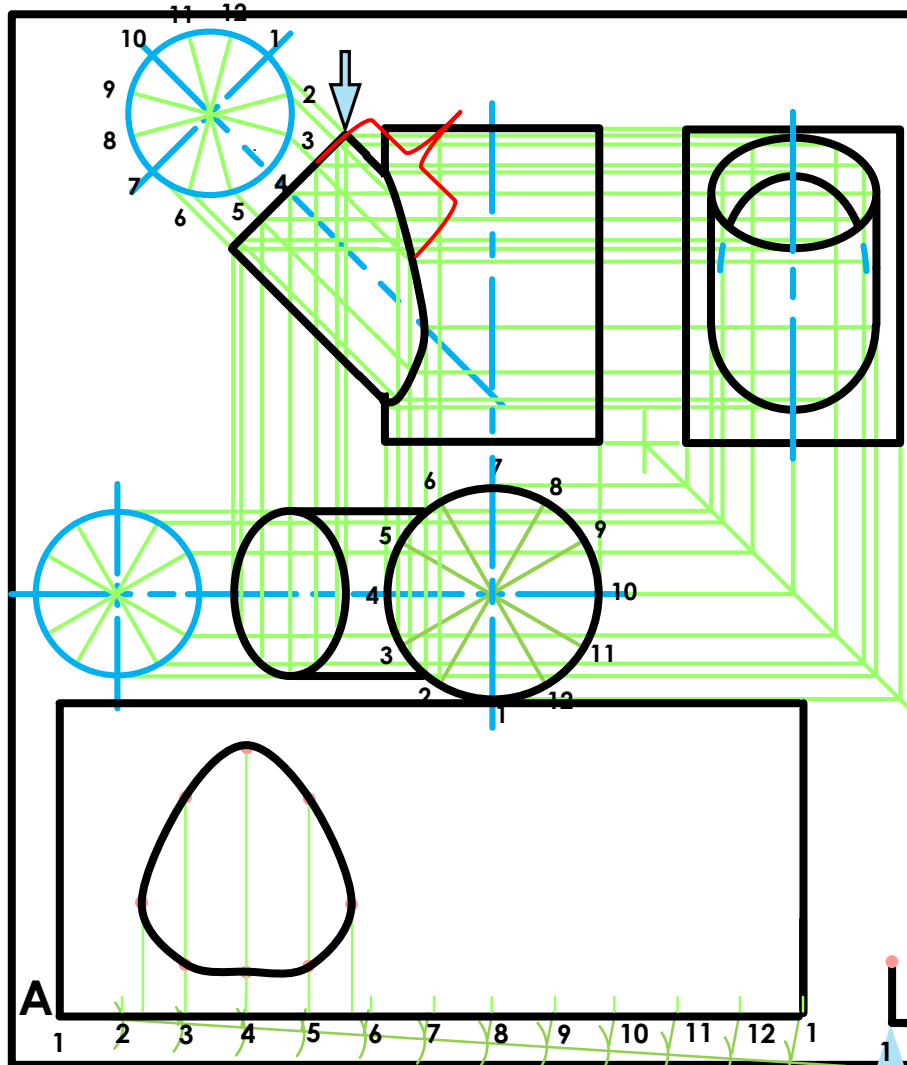
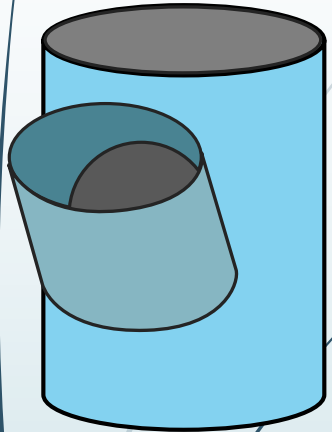
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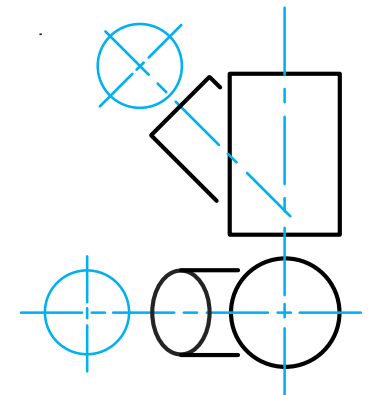
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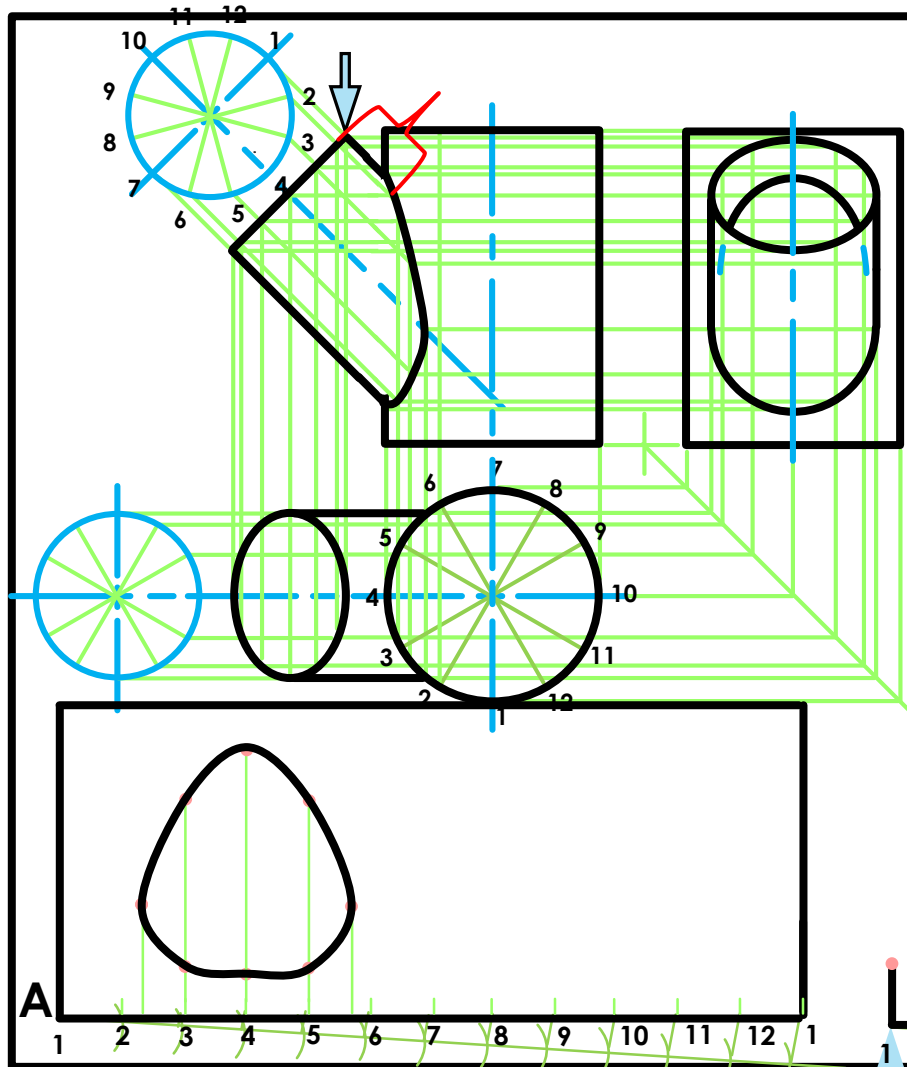
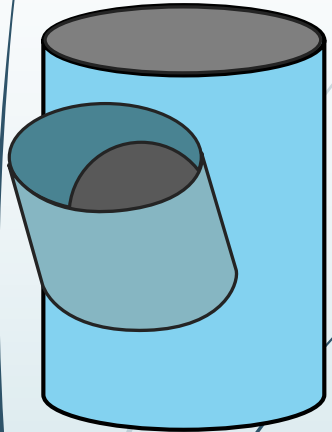
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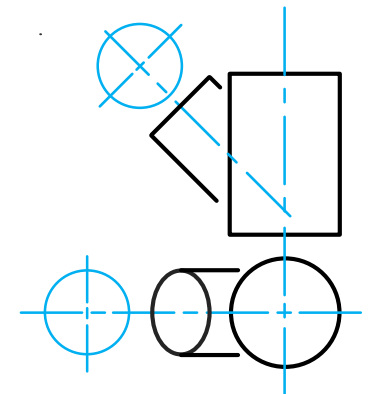
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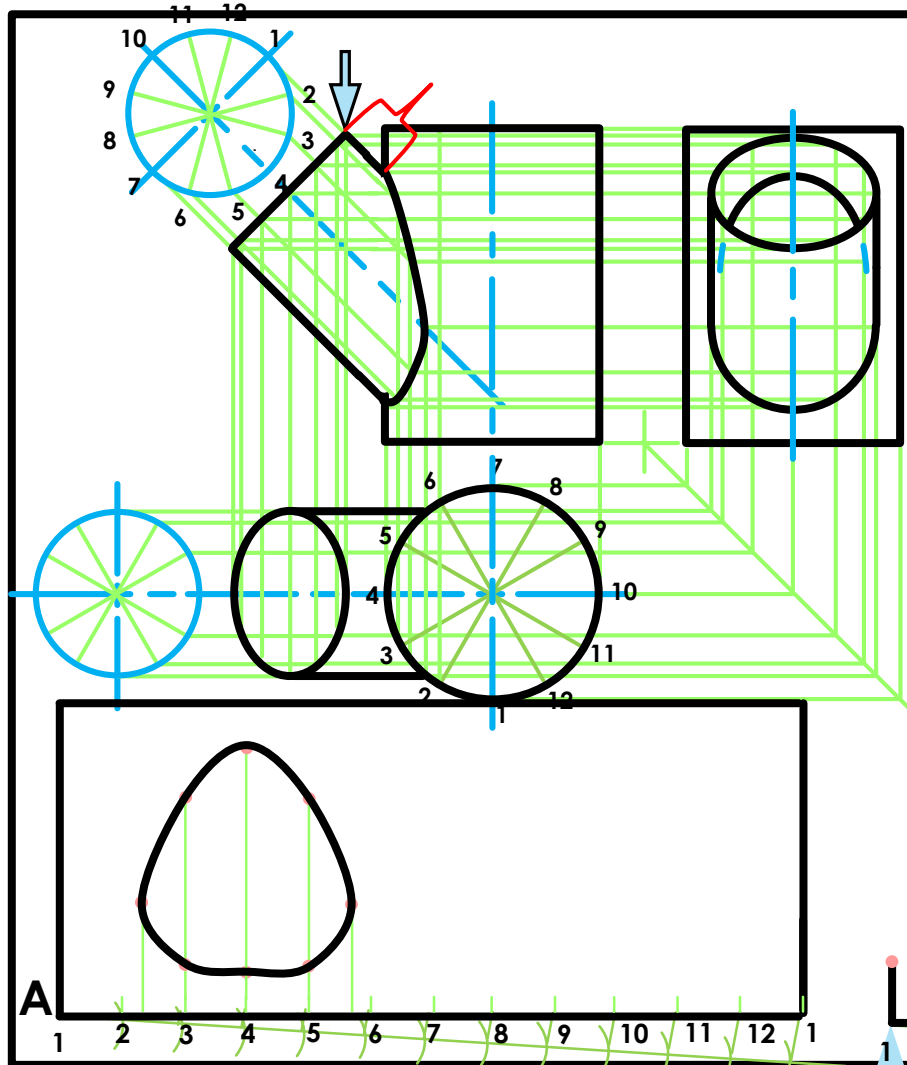
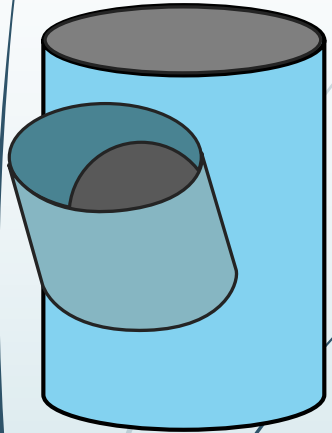
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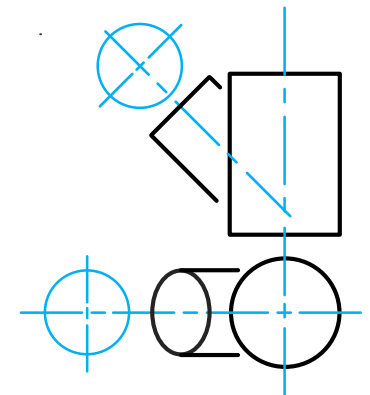
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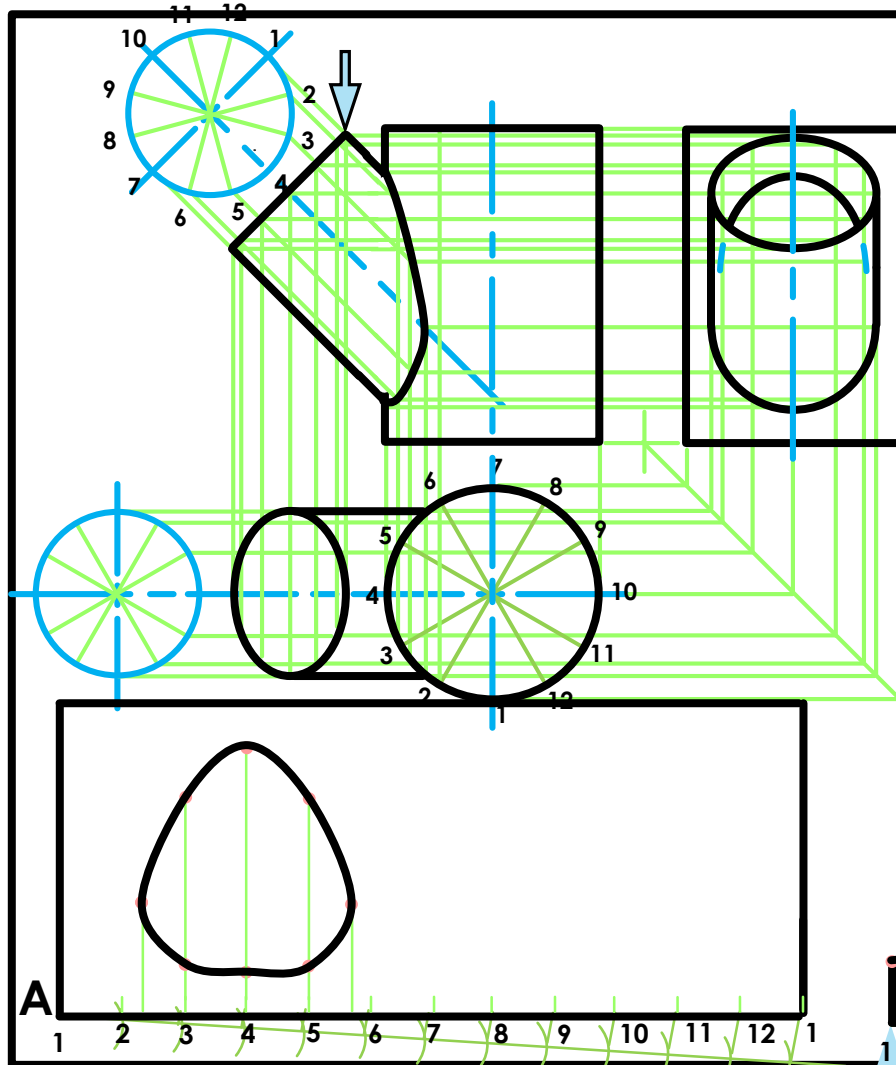
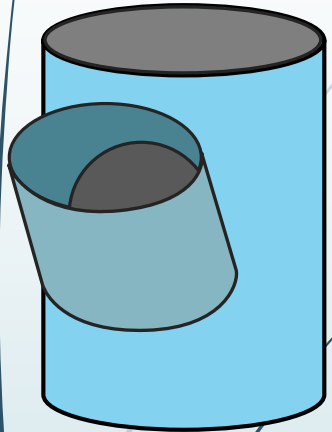
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* Show ALL necessary construction.

