



Application on polygons

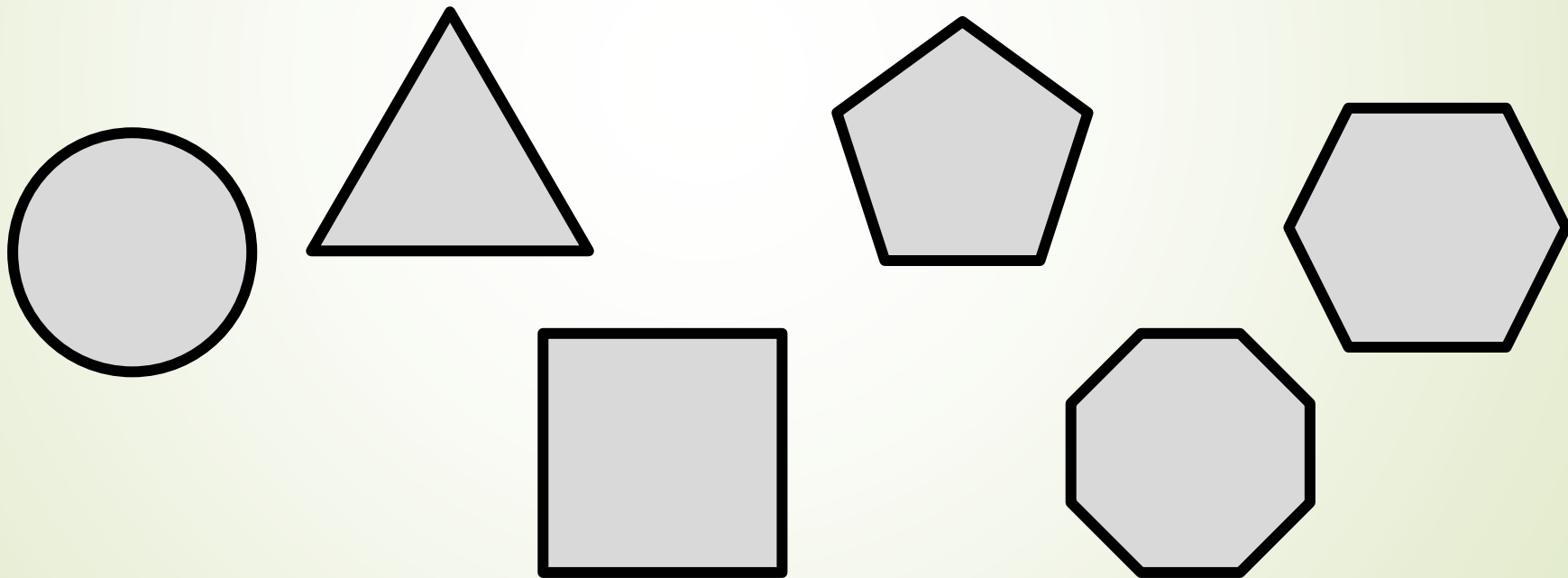
Horizontal Axis

Grade 10, 11 & 12

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

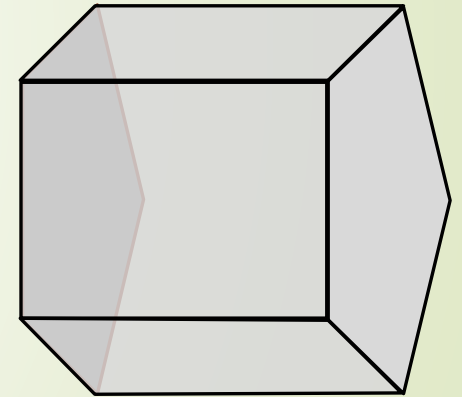
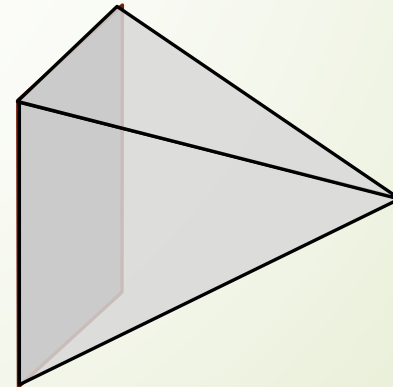
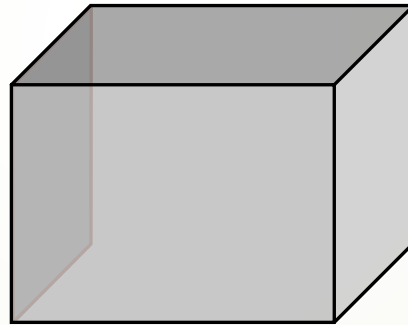
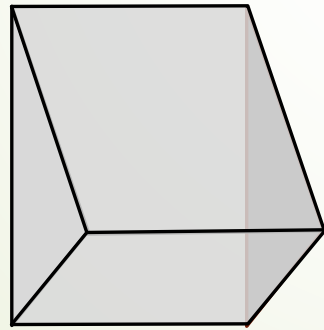
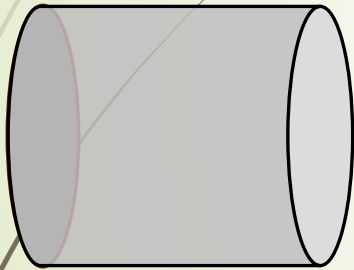
Application on polygons

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



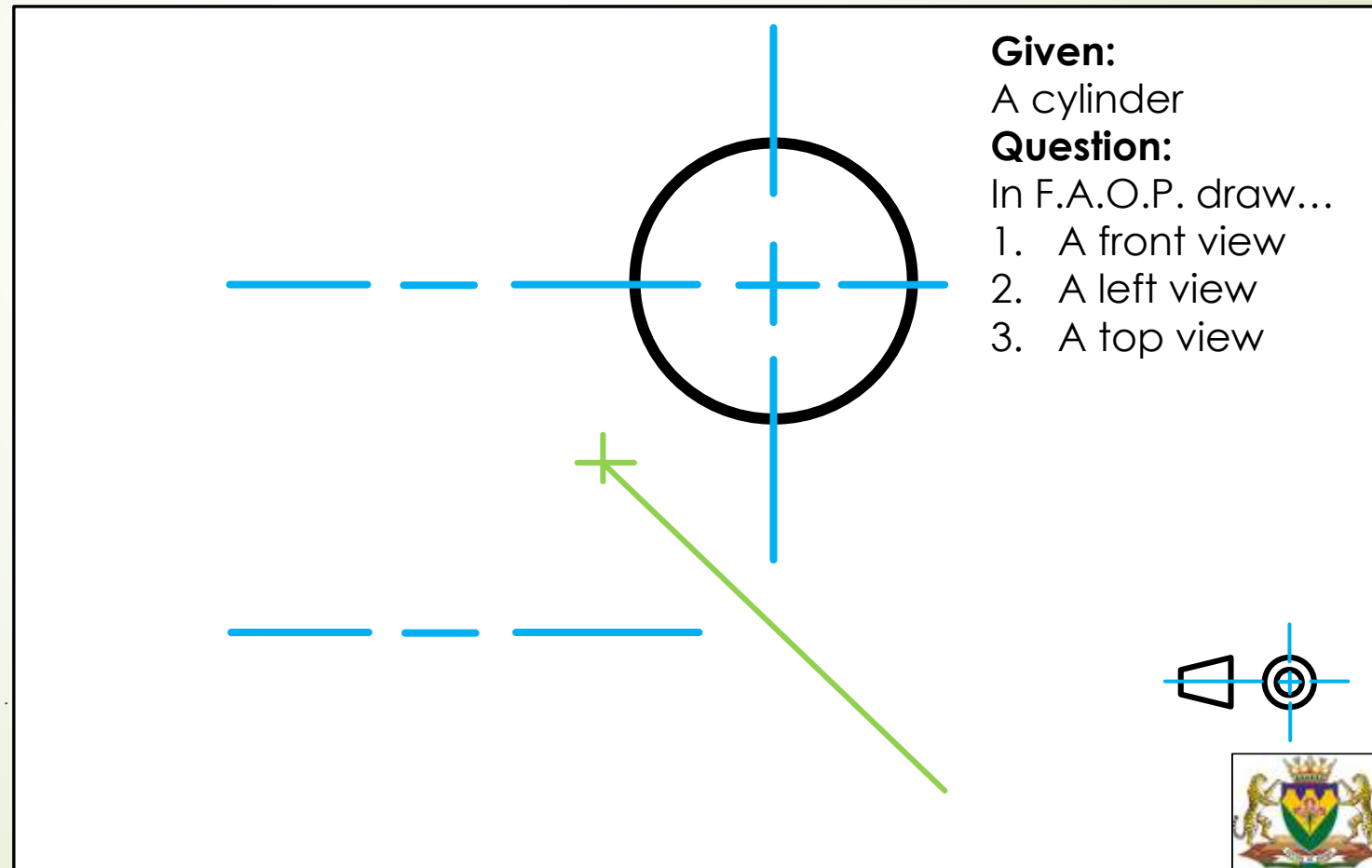
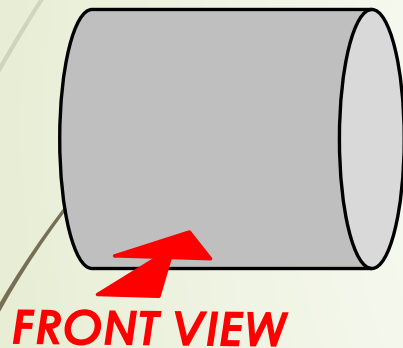
Application on polygons

- 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

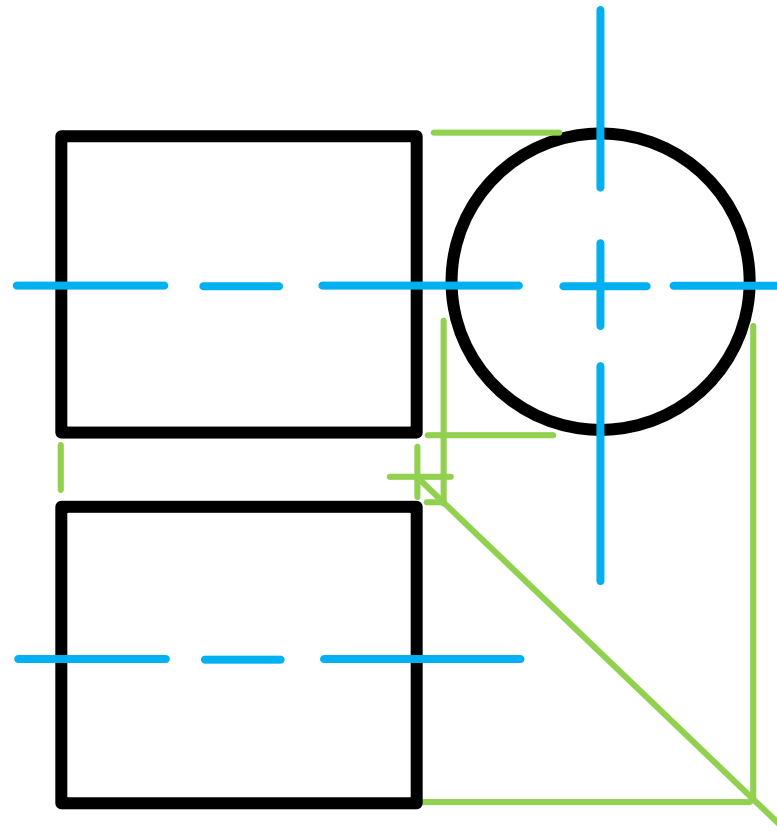
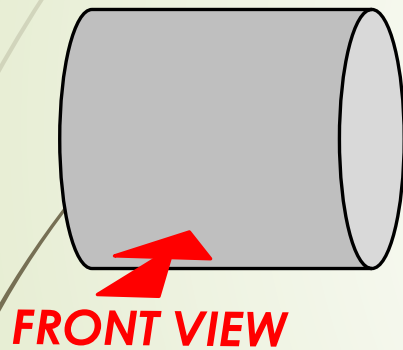


Given:
A cylinder

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

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

Application on polygons



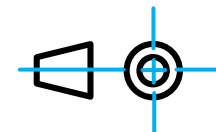
Given:

A cylinder

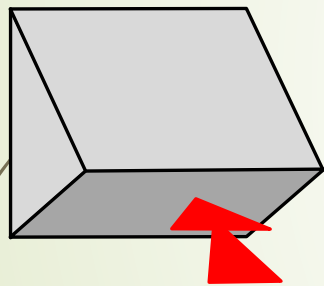
Question:

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

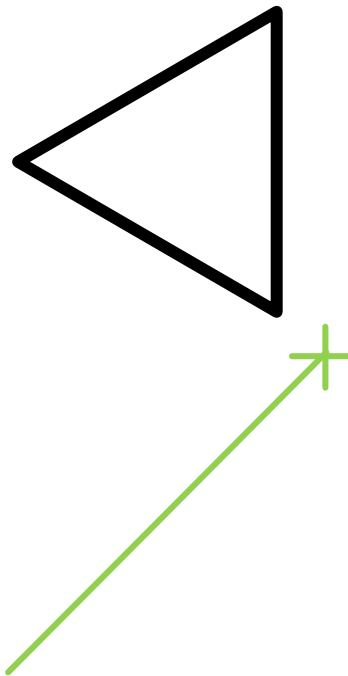
1. A front view
2. A left view
3. A top view



Application on polygons



FRONT VIEW



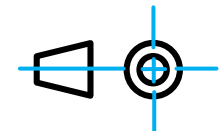
Given:

A triangular prism

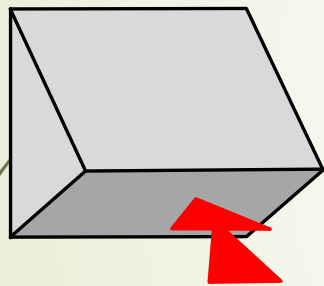
Question:

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

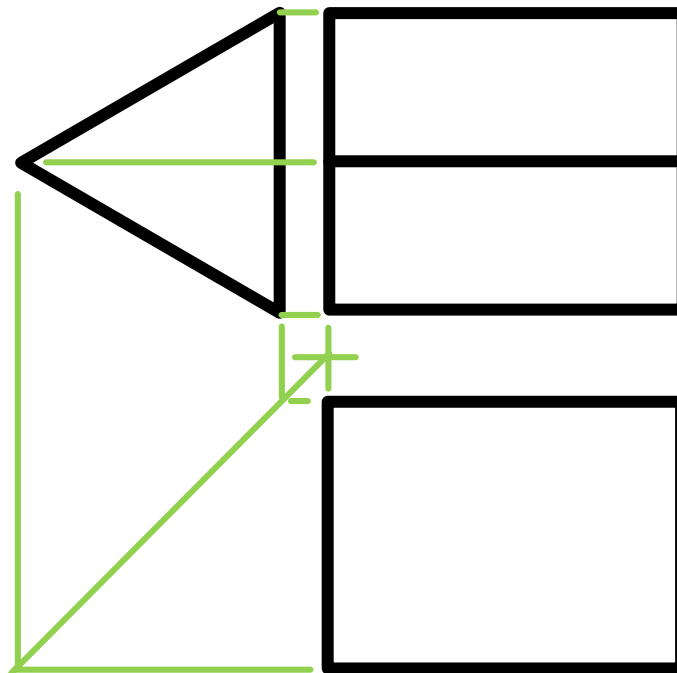
1. A front view
2. A right view
3. A top view



Application on polygons



FRONT VIEW



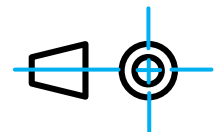
Given:

A triangular prism

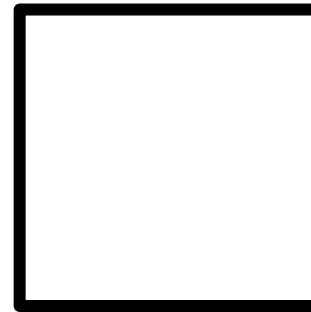
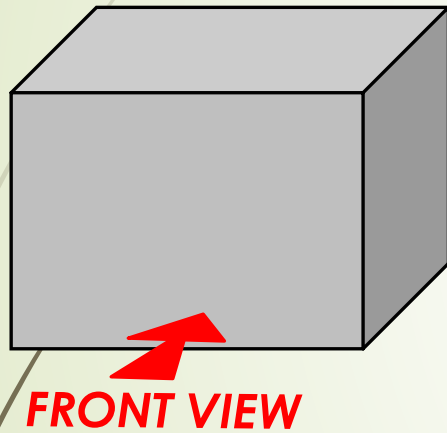
Question:

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

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



Application on polygons



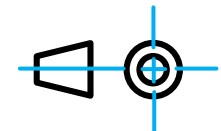
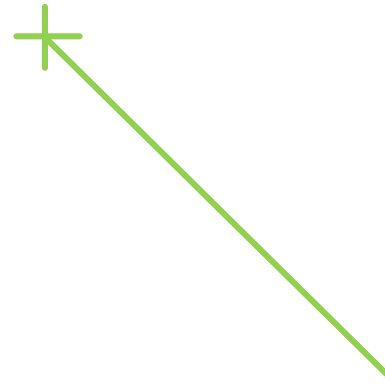
Given:

A square prism

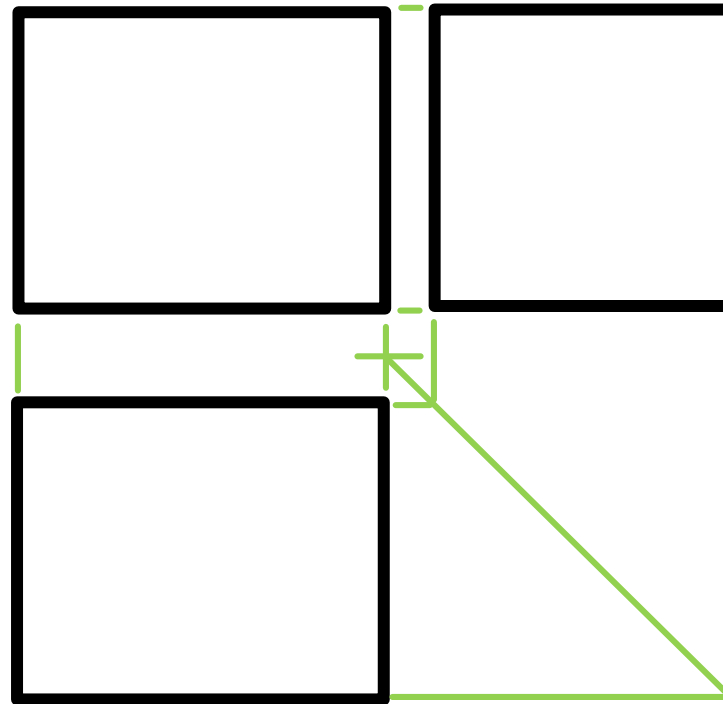
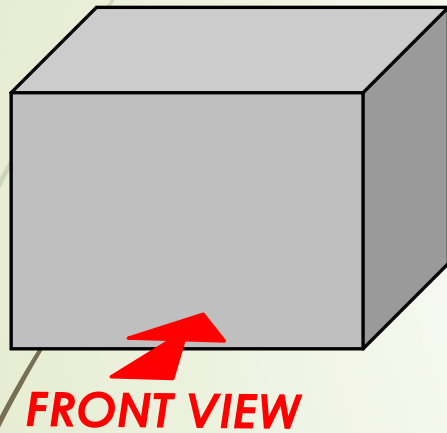
Question:

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

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



Application on polygons



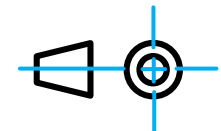
Given:

A square prism

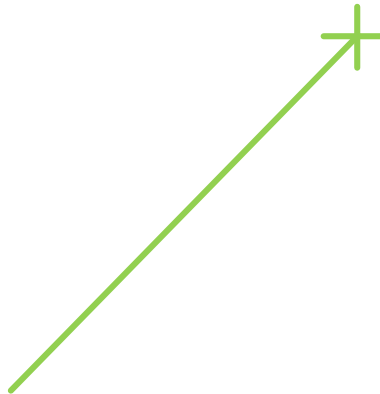
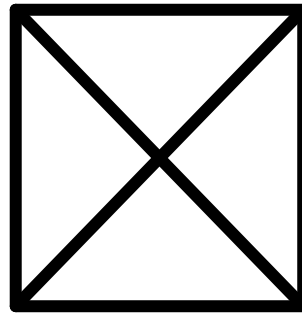
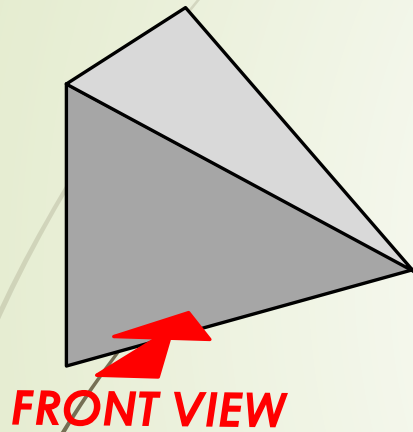
Question:

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

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



Application on polygons



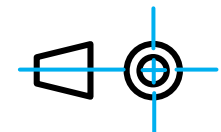
Given:

A square pyramid

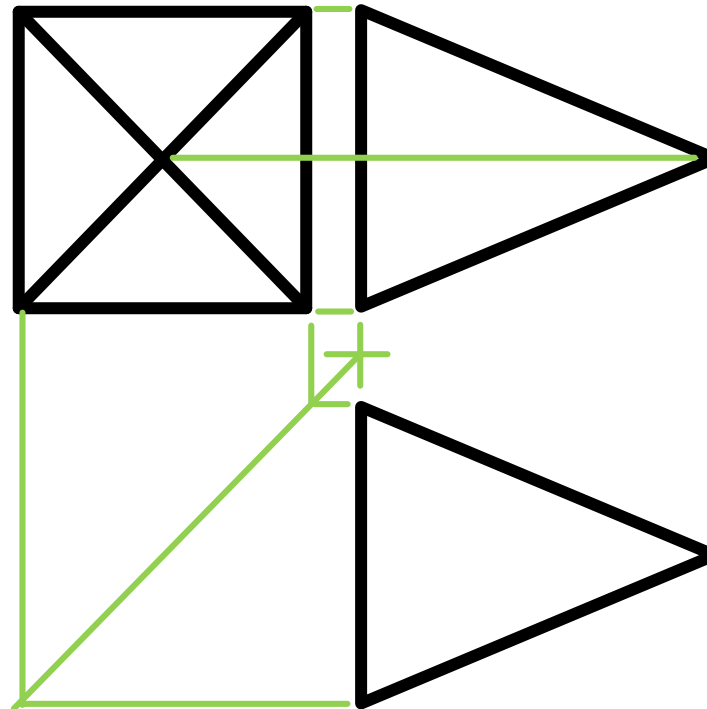
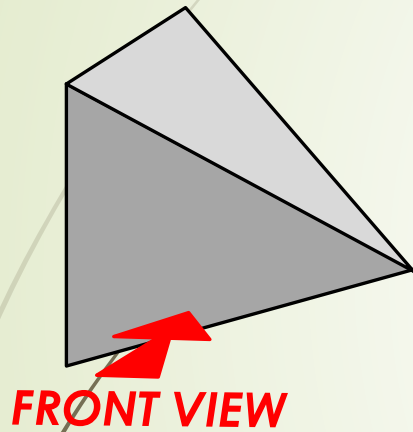
Question:

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

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



Application on polygons



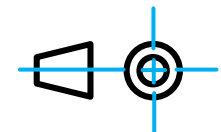
Given:

A square pyramid

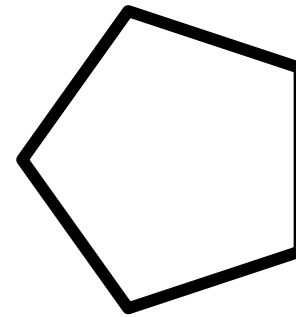
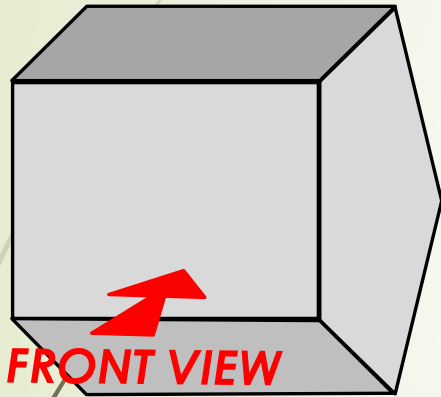
Question:

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

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



Application on polygons



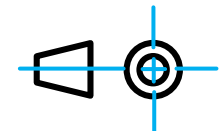
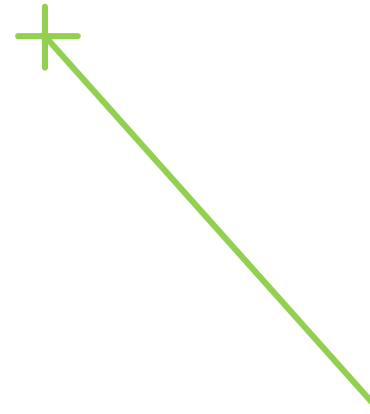
Given:

A pentagonal prism

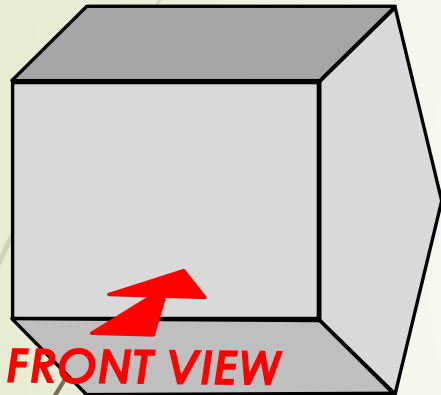
Question:

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

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



Application on polygons



The diagram illustrates the orthographic projection of a pentagonal prism. It consists of three views: a front view (top left), a top view (bottom left), and a left view (right). The front view is a rectangle with a dashed blue horizontal line representing the hidden edge. The top view is a pentagon. The left view is a rectangle. Green projection lines connect the 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