Find the area of the shaded regions

8 cm

8 cm

$$64 - 16\pi$$

2 cm

2 cm

$$2\pi - 4$$

Vertices
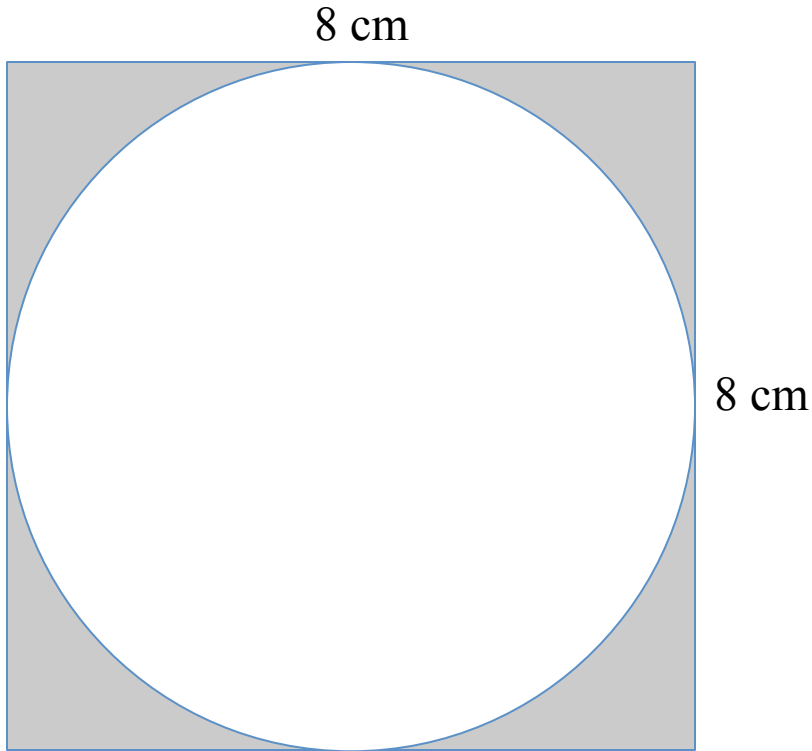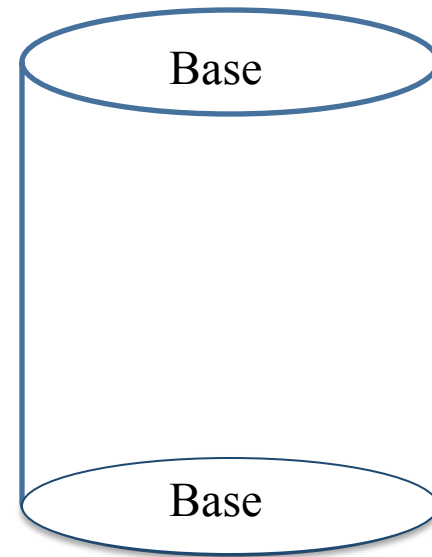
Base
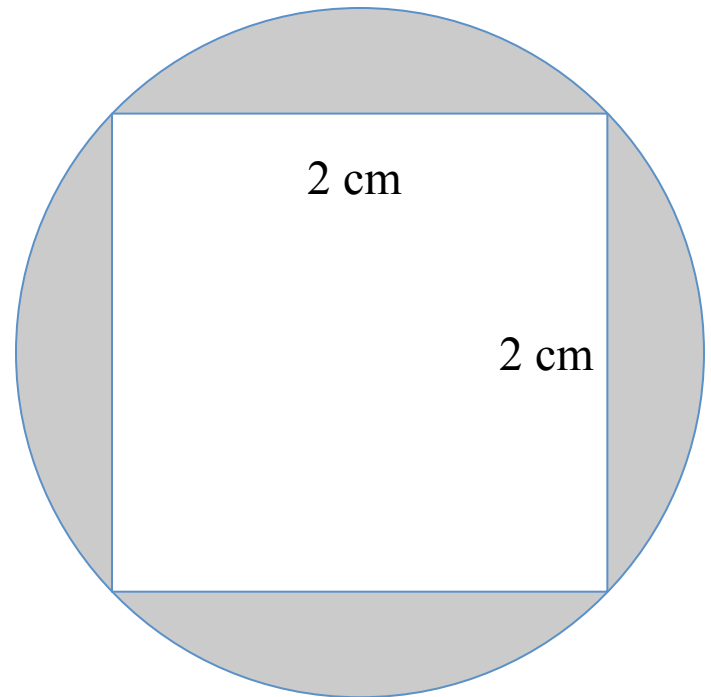
Edges
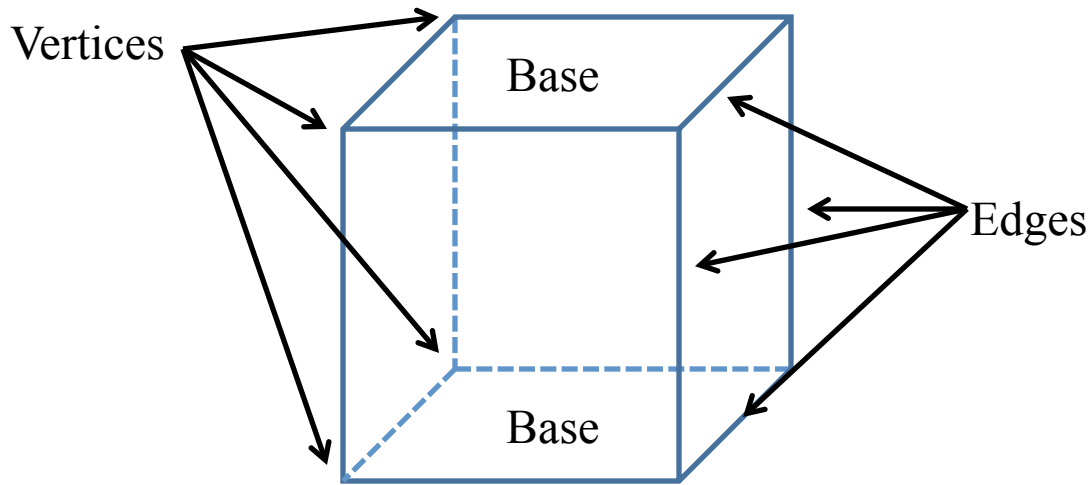
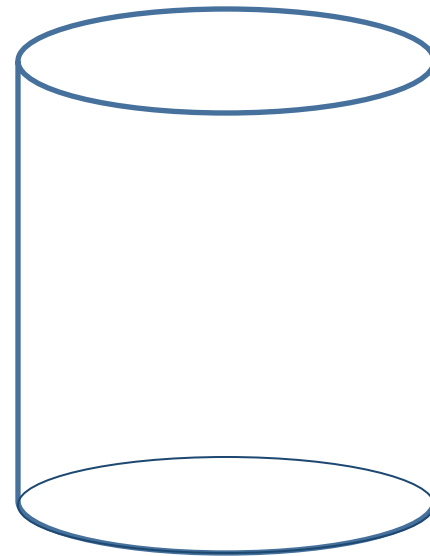Base

How would we find the surface area of this cylinder?

Base

No Vertices

Base

No Edges

How would we find the surface area of this cylinder?

$$A_{surface} = A_{bases} + A_{lateral\ area}$$

$$A_{surface} =$$
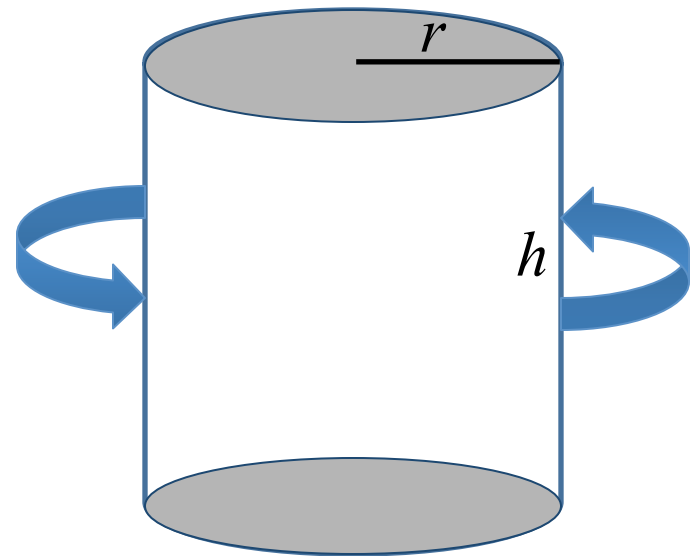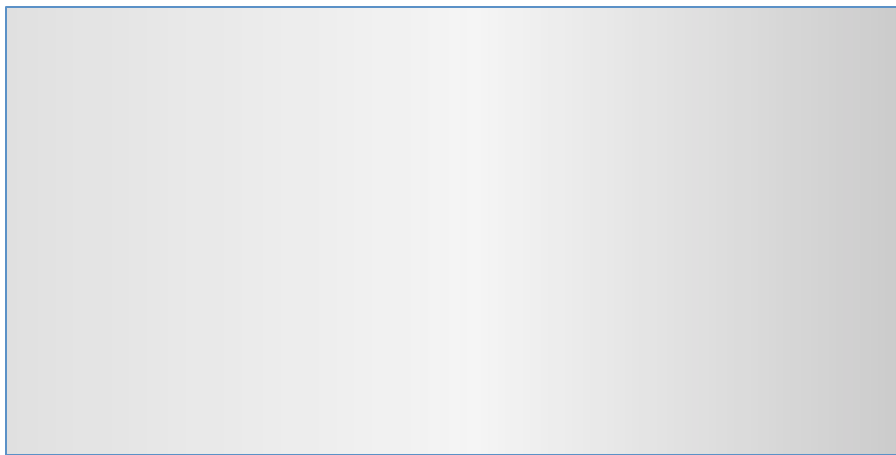

Lateral area or area around the cylinder

How would we find the surface area of this cylinder?

$$A_{surface} = A_{bases} + A_{lateral\,area}$$

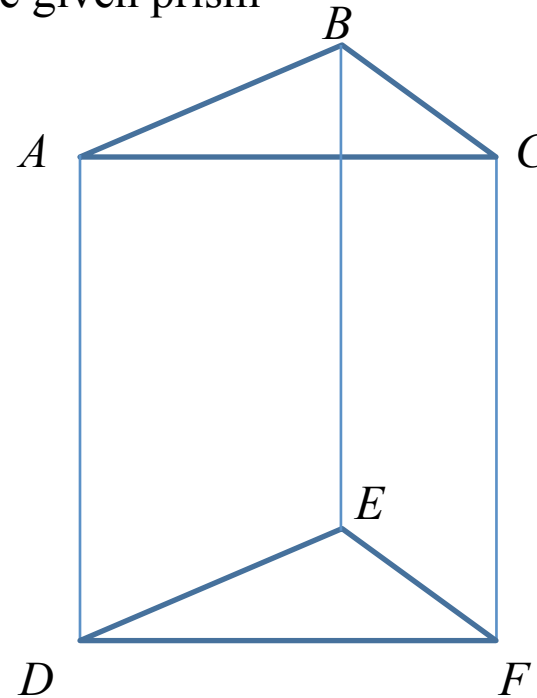$$A_{surface} = 2\pi r^2 + 2\pi rh$$

$$C = 2\pi r$$

h

r

h

Lateral area or area around the cylinder

Identify the vertices, edges, and bases of the given prism

Vertices: A, B, C, D, E, F

Edges: $\overline{AB}, \overline{BC}, \overline{AC}, \overline{DE}, \overline{EF}, \overline{DF}$

$\overline{AD}, \overline{BE}, \overline{CF}$
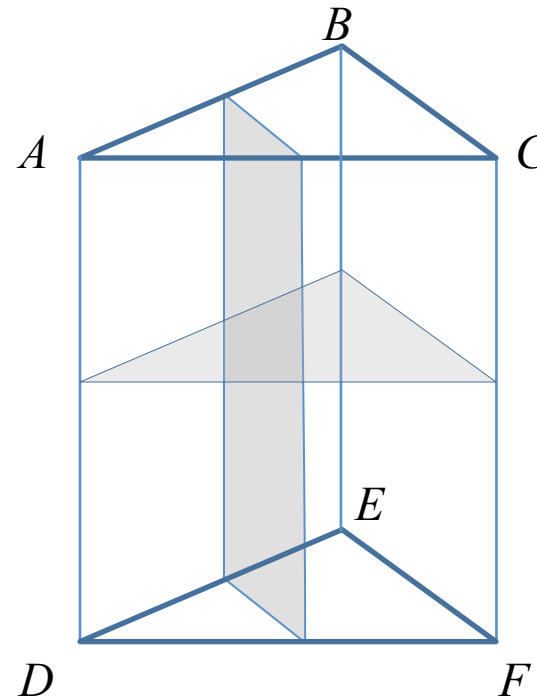
Base: $\triangle ABC, \triangle DEF$

What two-dimensional shape would
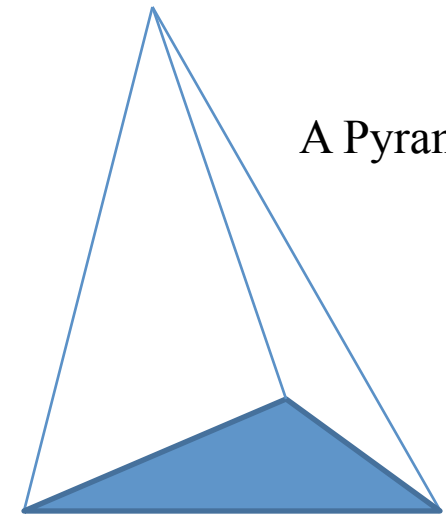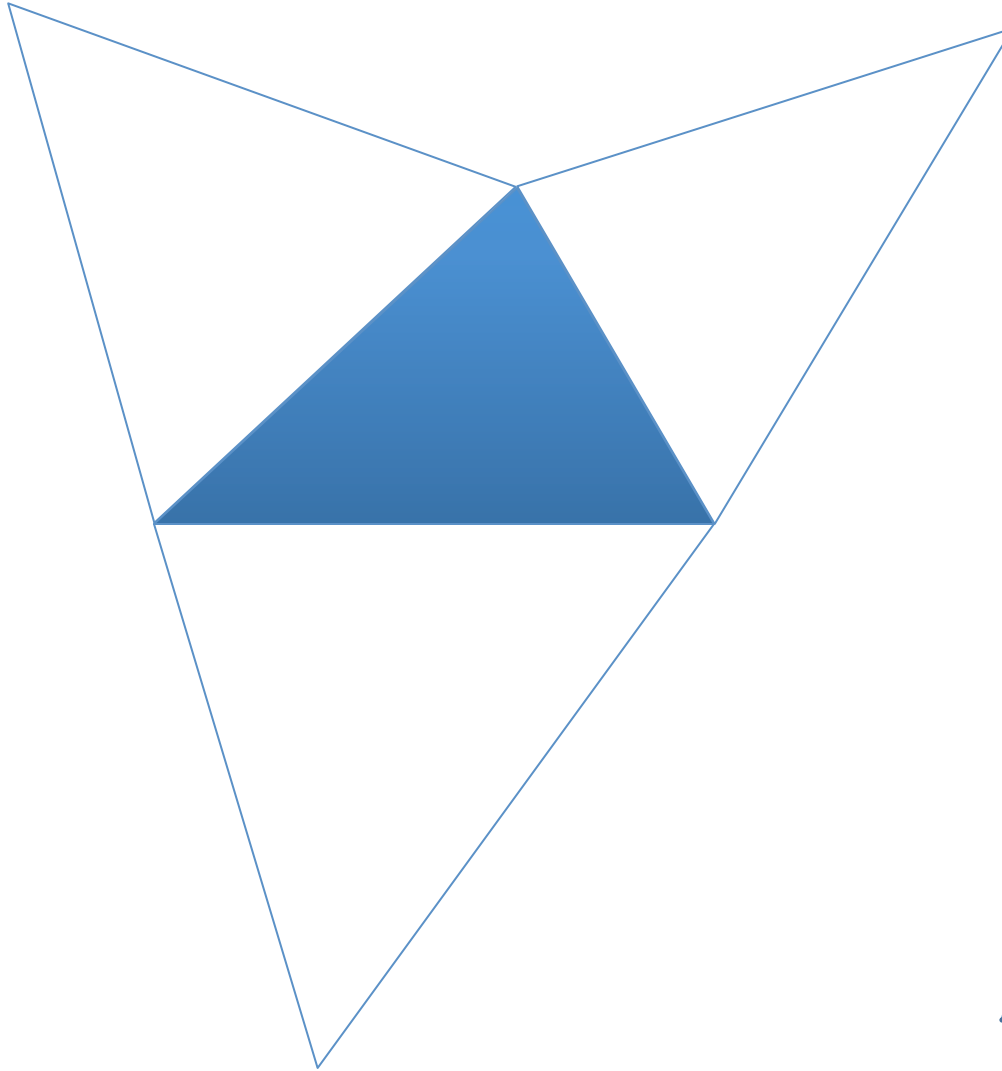a vertical **cross-section** be?

Rectangle

What two-dimensional shape would
a horizontal **cross-section** be?

Triangle

This is called a **_net_**. The base is shaded and the sides are clear. What would this look like with all the sides folded up?

A Pyramid