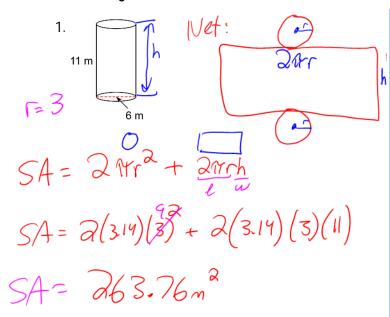
Lesson #3: Cones and Cylinders

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Date: February 4, 2018

Learning Goal: We are learning to calculate the surface area and volume of cylinders and cones.

For each figure, draw the net, then calculate the surface area and the volume.



$$V = 1rr^2h$$
 $V = (3.1t)(3)(1)$
 $V = 310.86 m^3$

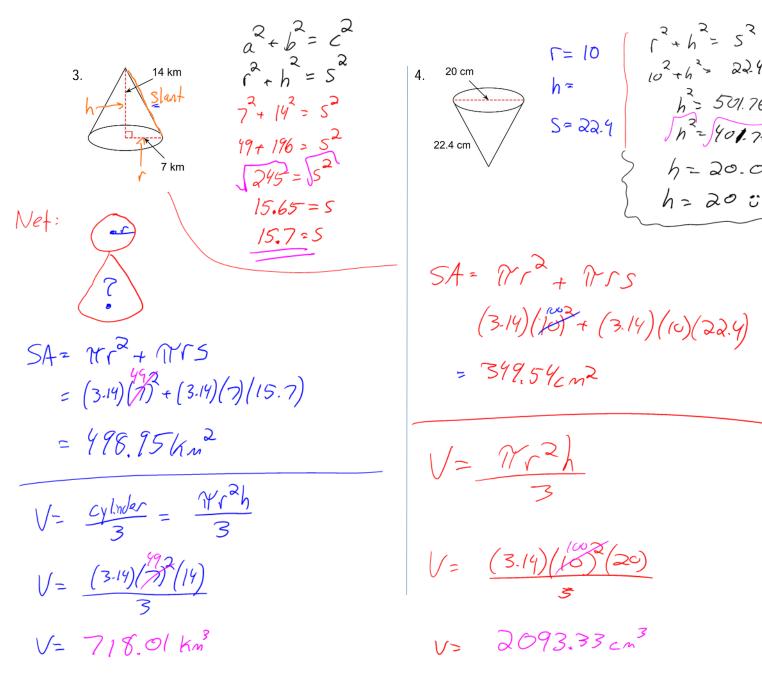
$$SA = 2\pi r^2 + 2\pi rh$$

 $SA = 2(3.14)(10)^2 + 2(3.14)(10)(5)$
 $SA = 992in^2$

$$V = 241^{2}h$$

$$V = (3.14)(100)(5)$$

$$V = 1570.5^{3}$$



Use the appropriate formula to solve for the missing measurement.

5. A Cylinder has a volume of 2769.48 cm³ with a height of 18 cm. What is the length of the radius?

Success Criteria

- I can draw the net of a cylinder or cone
- I can use the appropriate formula to find the surface area or volume of a cone or cylinder
- If given the volume of a cone or cylinder, I can rearrange the equation to find the radius or height.