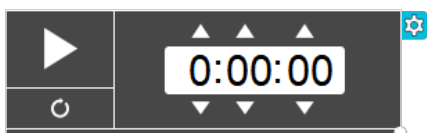


Warm-Up

November 22, 2017

Warm-Up...Assignment



$$SA_{\text{cylinder}} = 2\pi r^2 + 2\pi r h$$
$$c^2 = a^2 + b^2$$

**Work on extra practice when
finished**

What do you know about an equilateral triangle?

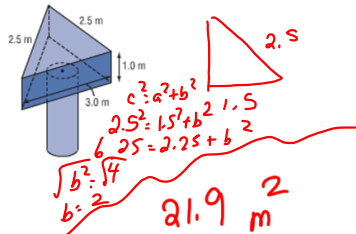
$c^2 = a^2 + b^2$
 $4.2^2 = 2.1^2 + b^2$
 $17.64 = 4.41 + b^2$
 $b^2 = 13.23$
 $b = 3.64$

$A = \frac{bh}{2}$
 $= \frac{4.2 \times 3.64}{2}$
 $= 7.6$

Find the area...[need a base and a height]

$3.637...$

5. Determine the surface area of each composite object.
 a) The cylinder is 2.5 m long with radius 0.5 m.



Cylinder

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

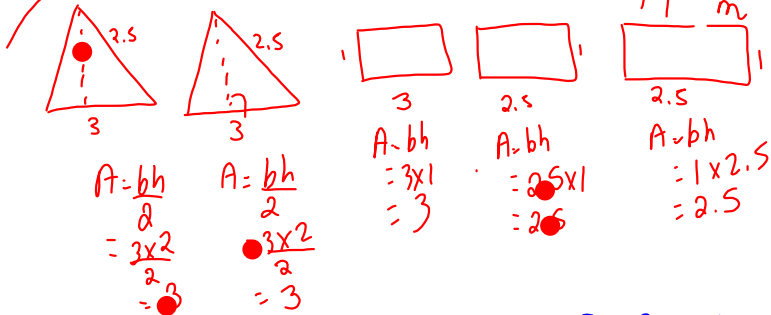
$$= 2(3.14)(0.5)^2 + 2(3.14)(0.5)(2.5)$$

$$= 2(3.14)(0.25) + 7.85$$

$$\rightarrow 1.57 + 7.85$$

$$9.42$$

Triangular Prism



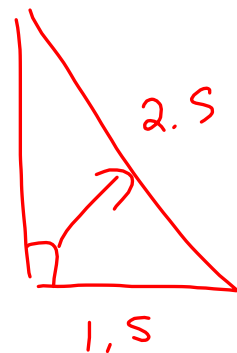
$$TSA = 9.42 + 14$$

$$= 23.42$$

$$- 1.57$$

$$21.9 \text{ m}^2$$

$$c^2 = a^2 + b^2$$
$$2.5^2 = a^2 + 1.5^2$$
$$6.25 = a^2 + 2.25$$
$$\sqrt{a^2} = \sqrt{4}$$
$$a = 2$$



Attachments

page 40 answers.notebook