

## EXAM REVIEW...

### - Chp. 6: Surface Area, Volume & Capacity

[http://mvhs.nbed.nb.ca/sites/mvhs.nbed.nb.ca/files/noteattach//y2016/Jan/chp.\\_6\\_test\\_-\\_surface\\_area\\_volume\\_and\\_capacity\\_oct.\\_2015.pdf](http://mvhs.nbed.nb.ca/sites/mvhs.nbed.nb.ca/files/noteattach//y2016/Jan/chp._6_test_-_surface_area_volume_and_capacity_oct._2015.pdf)



### - Chp. 7/8: Angle Properties & Trigonometry

[http://mvhs.nbed.nb.ca/sites/mvhs.nbed.nb.ca/files/noteattach//y2016/Jan/chp.\\_7\\_8\\_test\\_-\\_trigonometry\\_nov.\\_2015.pdf](http://mvhs.nbed.nb.ca/sites/mvhs.nbed.nb.ca/files/noteattach//y2016/Jan/chp._7_8_test_-_trigonometry_nov._2015.pdf)



TOMORROW... Money Units: Chp. 1, 2 & 3

\* Check and Correct!!! Come with questions!

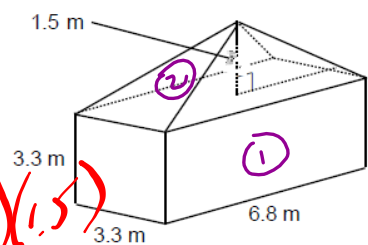
8. Determine the volume of this composite object, which is a right square prism and a right rectangular pyramid, to the nearest tenth of a cubic metre.

[A] 85.3 m<sup>3</sup>

[B] 107.7 m<sup>3</sup>

[C] 90.7 m<sup>3</sup>

[D] 514.8 m<sup>3</sup>



$$V_{\textcircled{1}} = 3.3 \times 6.8 \times 3.3$$

$$V_{\textcircled{1}} = 74.052$$

$$V_{\textcircled{2}} = \frac{3.3(6.8)(1.5)}{3}$$

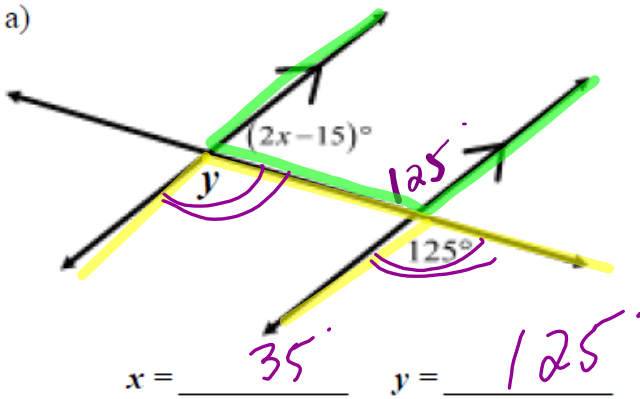
$$= 11.22$$

$$V_{\text{total}} \Rightarrow 74.052 + 11.22$$

$$= 85.3 \text{ m}^3$$

3. Determine the value for  $x$  and  $y$  in each of the following. Show all

a)



$$(2x - 15) + 125 = 180$$

$$2x + 110 = 180$$

$$2x = 70$$

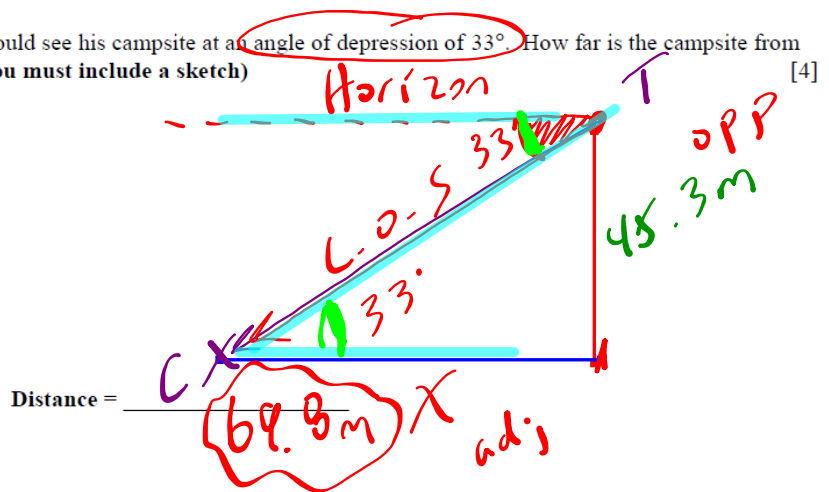
$$x = 35$$

4. From the top of a tower 45.3 m high, Terry could see his campsite at an angle of depression of 33°. How far is the campsite from the tower? (You must include a sketch) [4]

$$\tan 33^\circ = \frac{45.3}{x}$$

$$x = \frac{45.3}{\tan 33^\circ}$$

$$x = 69.8$$



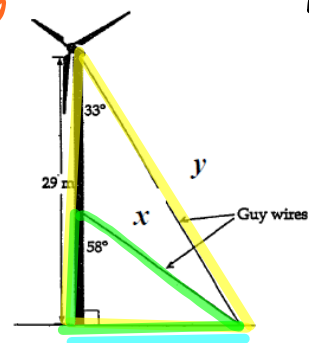
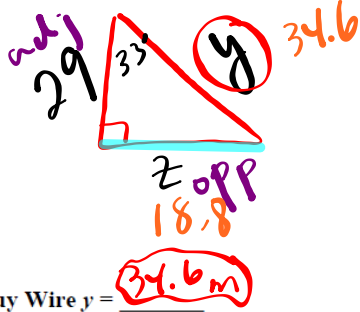
5. A windmill on a farm is supported by two guy wires, as shown below. Find the lengths of the two guy wires.

[6]

$$\cos 33^\circ = \frac{29}{y}$$

$$y = \frac{29}{\cos 33^\circ}$$

$$y = 34.6 \text{ m}$$



Guy Wire x = 22.2 m

Guy Wire y = 34.6 m

$$29 \tan 33^\circ = z$$

$$18.8 = z$$

$$\sin 58^\circ = \frac{18.8}{x}$$

$$x = \frac{18.8}{\sin 58^\circ}$$

$$x = 22.2 \text{ m}$$

