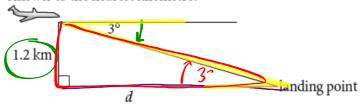
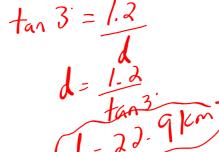
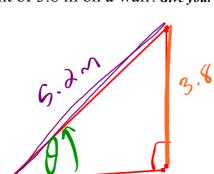
## WARM UP...

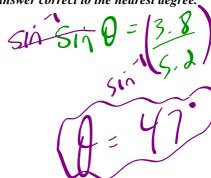
1) A Bombardier CRJ700 passenger airplane flying at an altitude of 1.2 km starts its final airport approach by descending at an angle of depression of 3°. How far along the ground is the airplane from its landing point? Answer to the nearest kilometre.





2) At what angle of elevation must a 5.2 m ladder be placed to reach a vertical height of 3.8 m on a wall? Give your answer correct to the nearest degree.

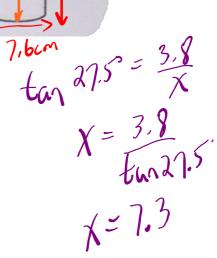




Hw??!

9. A funnel is placed in a glass, as shown. If the glass is 14.5 cm tall and 7.6 cm in diameter, how high is the vertex of the funnel above the bottom of the glass?

Distance > 14,5 - 1.3 - 7,200

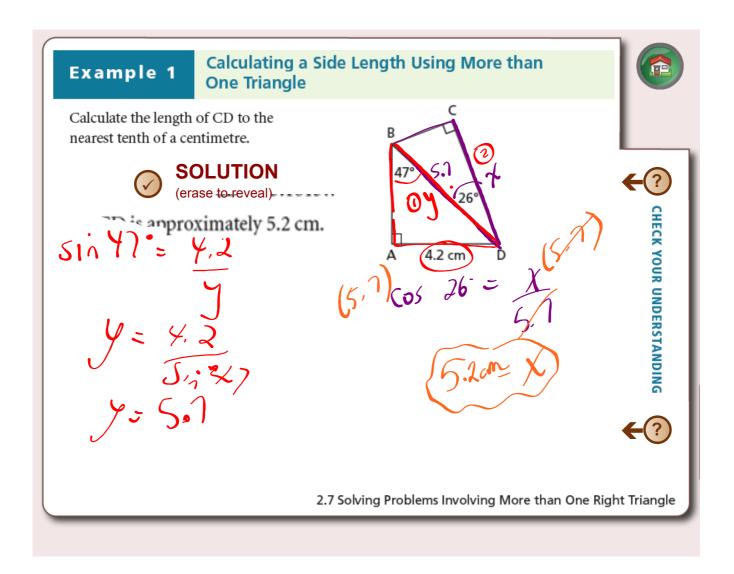


11. Two office towers are 31.7 m apart. From the shorter one, the angle of elevation to the top of the other is 27.5°, while the angle of depression to the base is 78.2°.

Find the height of each tower.

31. 7 m

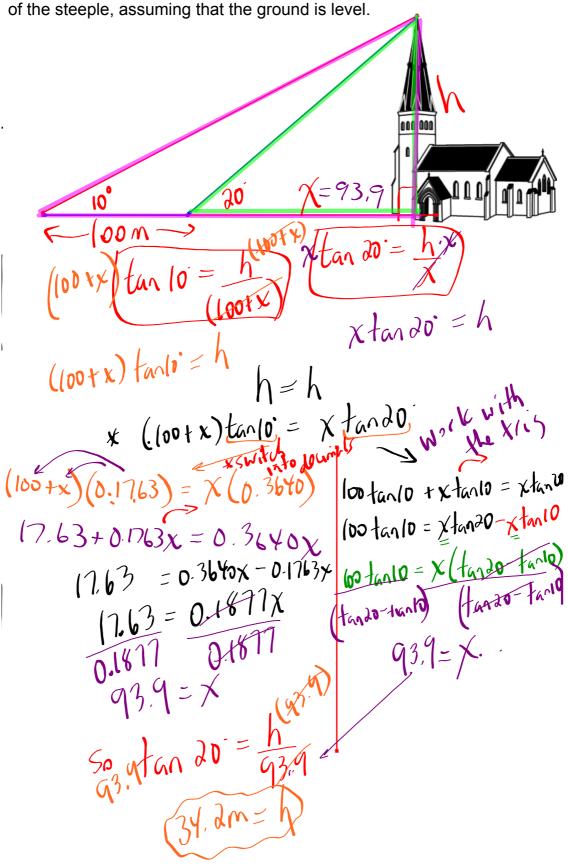
31. 7



$$\begin{cases} x = 15 \\ x = 17^{2} - 8^{2} \end{cases}$$

## EXAMPLE #2:

Anita Sumtrig measured the angle of elevation of a church steeple and found it to be 10°. Then, she walked 100 m towards the steeple and measured the angle of elevation again; this time it was 20° Find the height of the steeple assuming that the ground is level



Homework...

No#3 bdf

from last night

White the standard of the standard of

Worksheet - Applications of Trig Ratios.doc

#1-4 #7-10 #15,#16 Worksheet - Applications of Trig Ratios.doc