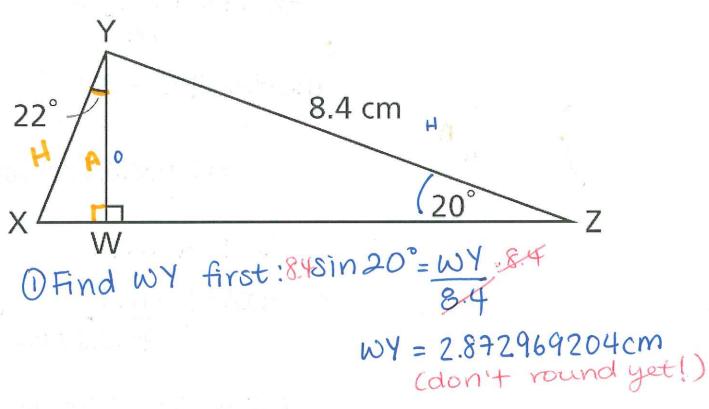
2.7 Solving Problems Involving More Than One Right Triangle

Example: Find the length of XY to the nearest tenth of a centimetre. Recall: Do not round any numbers until the very last step.



(2) Find XY:
XY
$$\cos 22^\circ = 2.872969204$$
 XY
XY $\cos 22^\circ = 2.872969204$
 $\cos 22^\circ$
XY = 3.1cm

Example: A surveyor stands at a window on the 9th floor of an office tower. He uses a clinometer to measure the angles of elevation and depression of the top and the base of a taller building. The surveyor sketches this plan of his measurements. Determine the height of the taller building to the nearest tenth of a metre.

