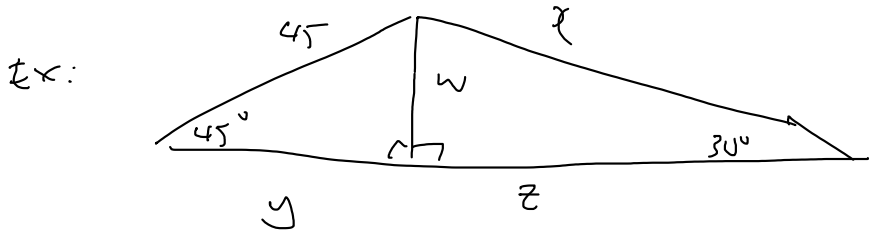


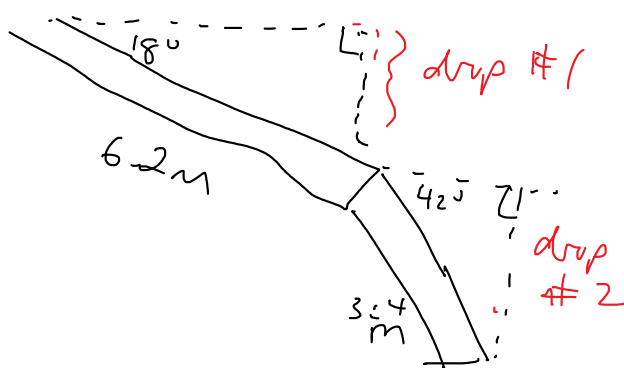
A&W Math 11. unit 3.4: Trigonometric applications, part2  
2 or more triangles



→ break up into 2  $\Delta$ s =

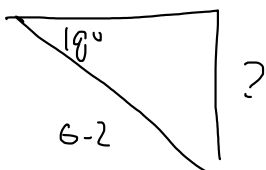


ex: Nico, a pipe fitter, is installing a pipe with a bend. He draws a sketch:

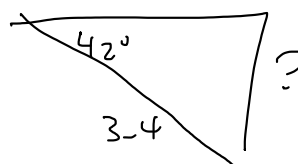


-how far down is the pipe?

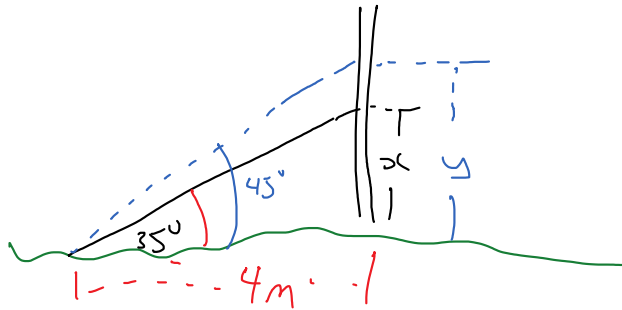
→ we see 2 triangles =



and:



EX: James works for BC Hydro to repair electrical wires. He has an adjustable ladder that can change length. He needs to fix an electrical pole:



a) Find the 2 heights,  $x$  and  $y$ , the ladder can reach.

b) How long can the ladder stretch?

- do pg 215 # 1-3, 5

