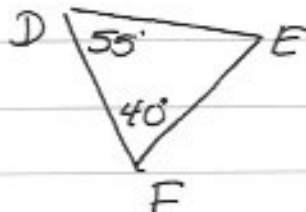
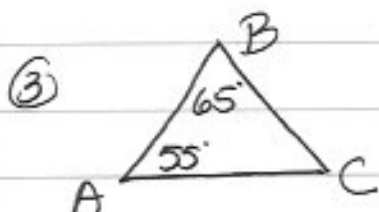
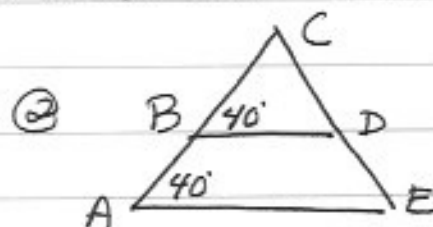
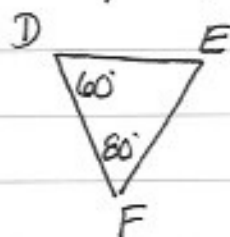
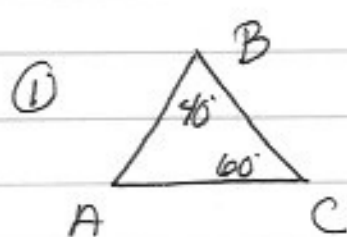


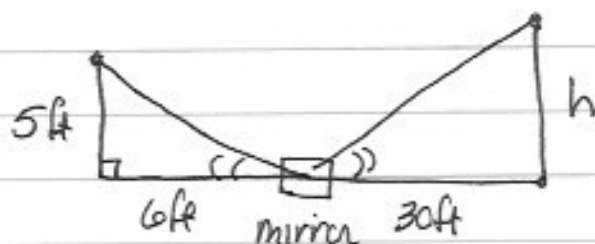
Similar Δ 's & Indirect Measurement

Are the Δ 's $\sim$? if so, then write the $\sim$ statement



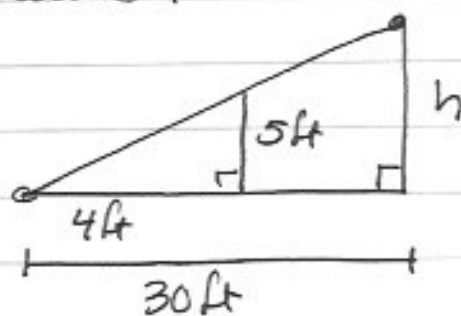
Applications. Write an equation. Solve.

- ④ you are 5ft tall & standing 6ft from a mirror. a tree is 30ft from the same mirror. how tall is the tree?



(next page)

- ⑤ you are 5ft tall & cast a 4ft long shadow. A tree casts a 30ft shadow. how tall is the tree?



Answers:

① yes by AA~. $\triangle ABC \sim \triangle FED$

② yes by AA~. $\triangle ACE \sim \triangle BCD$

③ NO

④ $\frac{5}{h} = \frac{4}{30}$ $h = 25\text{ft}$

⑤ $\frac{4}{30} = \frac{5}{h}$ $h = 37.5\text{ft}$