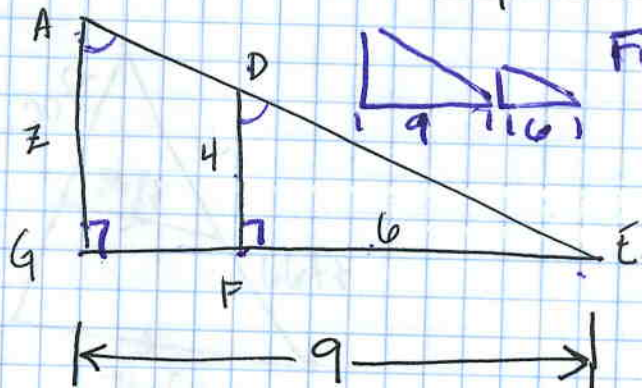


Write a similarity Statement



Find z

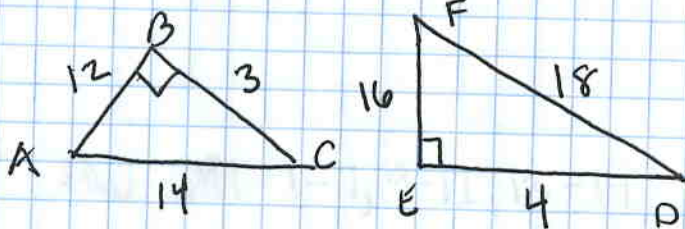
$$\frac{z}{4} = \frac{9}{6}$$

$$6z = 36$$

$$z = 6$$

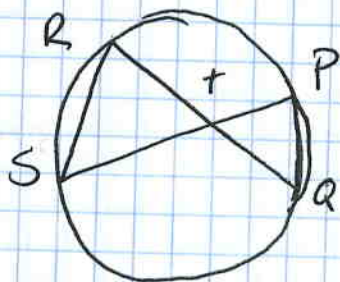
$\triangle GAE \sim \triangle FDE$

Are these \triangle 's Similar?



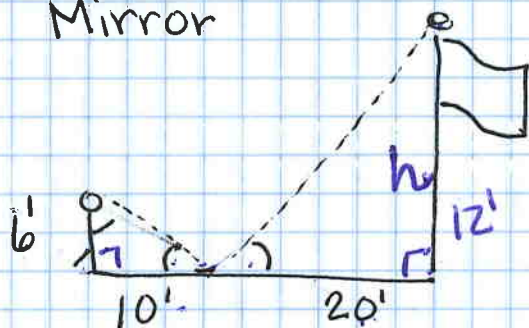
* Not to scale

Are these Similar?



11.3 Indirect Measurement

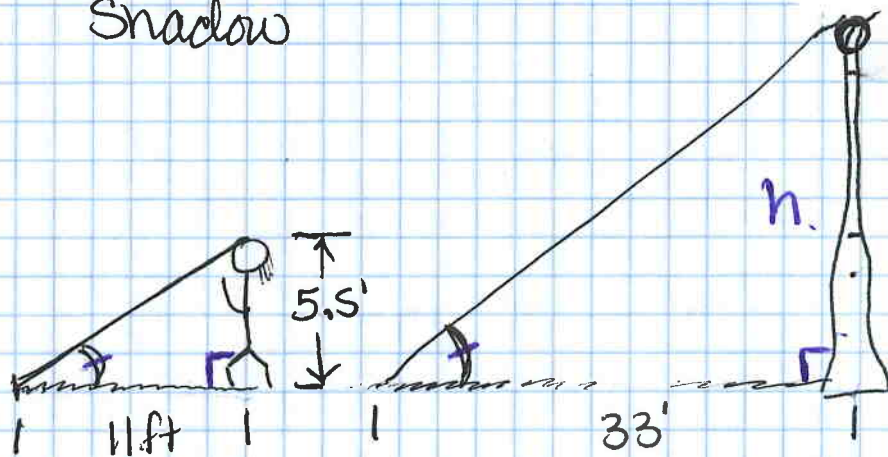
Mirror



angle of reflection is congruent

$$\frac{h}{6} = \frac{20}{10} \quad \frac{10h}{10} = \frac{120}{10}$$
$$h = 12$$

Shadow



angle of sun's rays are congruent

$$\frac{h}{5.5} = \frac{33}{11} \quad h = 16.5$$

599 1-7, 10