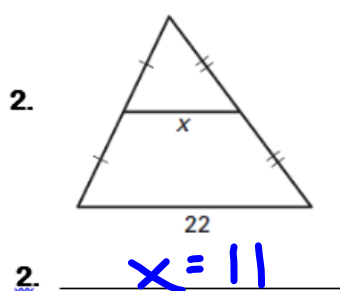
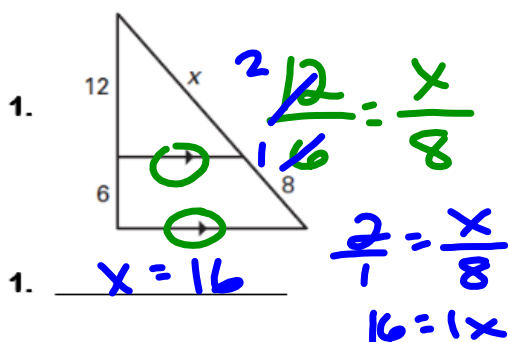


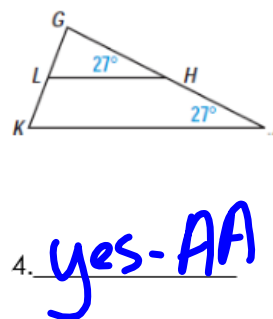
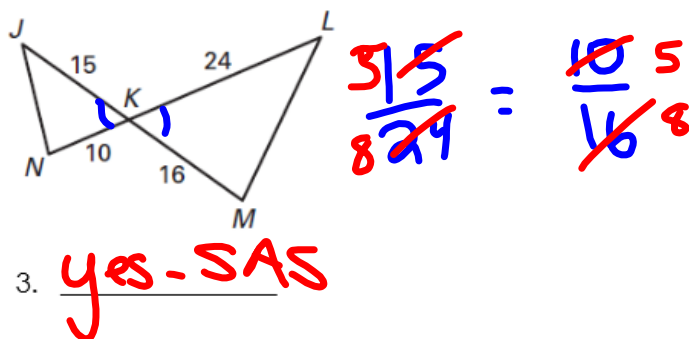
Warmup

Name: _____

Find the value of x.



Which postulate or theorem determines whether the triangles are similar? (AA, SSS, SAS, or none)



Find the missing angles and set up proportions to find the missing side lengths for the similar triangles.

4.

$\triangle PET \sim \triangle CAT$
 $x = 40$
 $y = 12$

Proportion to find x:
 $\frac{5}{2} = \frac{x}{16}$

Proportion to find y:
 $\frac{5}{2} = \frac{30}{y}$

$m\angle P = 60^\circ$ $m\angle ATC = 70^\circ$ $m\angle A = 60^\circ$

5.

$\triangle CAB \sim \triangle CED$
 $x = 13.5$
 $y = 8$

Proportion to find x:
 $\frac{3}{2} = \frac{x}{9}$

Proportion to find y:
 $\frac{3}{2} = \frac{12}{y}$

$m\angle 1 = 40^\circ$ $m\angle A = 60^\circ$ $m\angle E = 80^\circ$