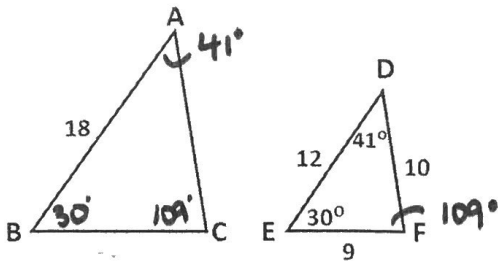


Directions: Find the information given each set of figures.

1) $\triangle ABC \sim \triangle DEF$



a) What is $m\angle A$? 41°

b) What is AC? 15

c) What is $m\angle C$? 109°

d) What is BC? 13.5

$$\frac{12}{18} = \frac{10}{x}$$

$$12x = 180 \quad | \div 12$$

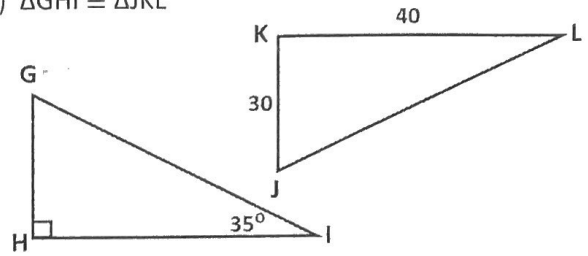
$$x = 15$$

$$\frac{12}{18} = \frac{9}{x}$$

$$12x = 162 \quad | \div 12$$

$$x = 13.5$$

2) $\triangle GHI \cong \triangle JKL$



a) What is $m\angle K$? 90°

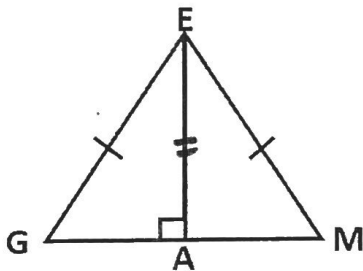
b) What is JL? 50

c) What is GI? 50

d) What is $m\angle J$? 90°

Directions: Use the given information to complete each statement.

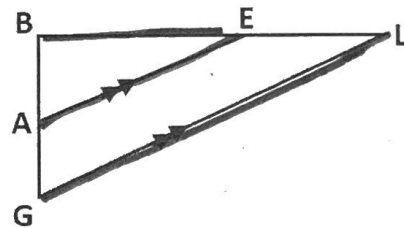
3)



a) $\triangle AGE \cong \triangle$ AME by HL

b) $\angle EGA \cong \angle$ EMA because of CPCTC

4)

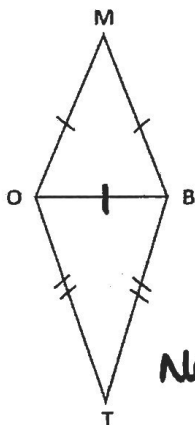


a) $\triangle ABE \sim \triangle$ GBL by AA~

b) $\frac{BE}{?} = \frac{AE}{GL}$ so ? represents this segment BL

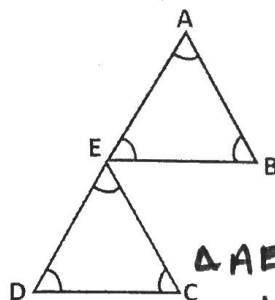
Directions: Determine whether there is enough information to prove whether the triangles are similar or congruent. If so, state the theorem or postulate that can be used to prove they are congruent. If not, write neither.

5)



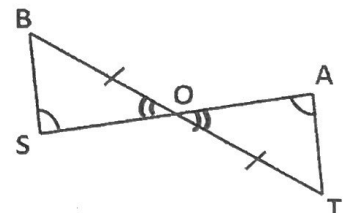
Neither

6)



$\triangle AEB \sim \triangle DEC$
by AA~

7)



$\triangle BOS \cong \triangle TOA$
by AAS