1.) Are these triangles similar? If yes, write a similarity statement.

A
16
6
W
T
15
9
M
K

$$SAS \sim ?$$

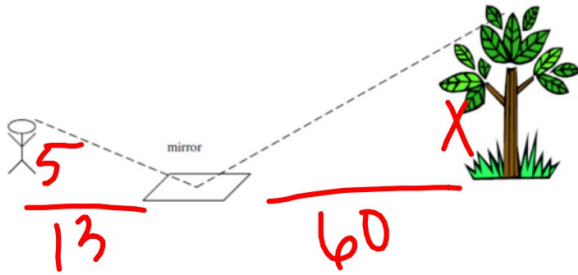$$\frac{16}{9} \neq \frac{15}{6}$$

Not similar

2.) Are these triangles similar? If yes, write a similarity statement.

C
E
N
Z
G
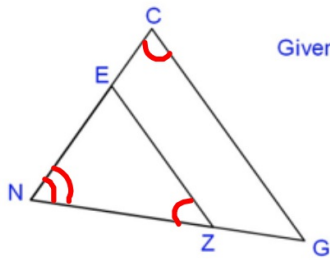
Given: $\angle NCG \cong \angle NZE$

$$AA \sim$$

$$\triangle NEZ \sim \triangle NCG$$

3.) Abe is 5 feet tall and is 13 feet from the mirror. The mirror is located 60 feet from the tree. How tall is the tree?
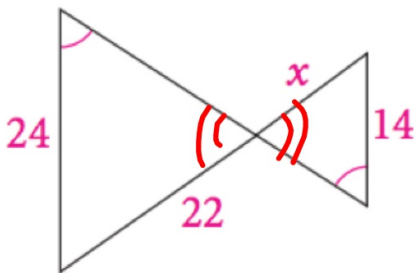

$$\frac{5}{x} = \frac{13}{60}$$

$$13x = 300$$

$$x = 23.08 ft$$

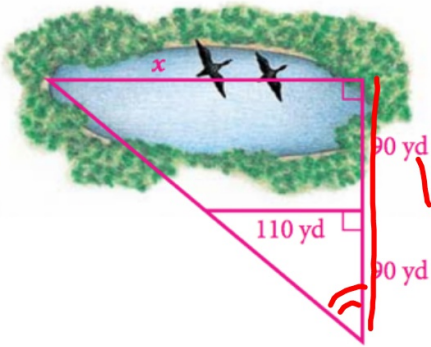4.) Are these triangles similar? If yes, write a similarity statement. Then find the value of x.

AA ~

$$\frac{24}{14} = \frac{22}{x}$$

$$x = 12.8\overline{3}$$

5.) Are these triangles similar? If yes, write a similarity statement. Then find the value of x.

x

90 yd 180

110 yd

90 yd

AA~

$$\frac{110}{x} = \frac{90}{180}$$

$$90x = 19,800$$

$$x = 220$$