1. Find the length of DE to the nearest integer.

F

49°

27

63°

D   E
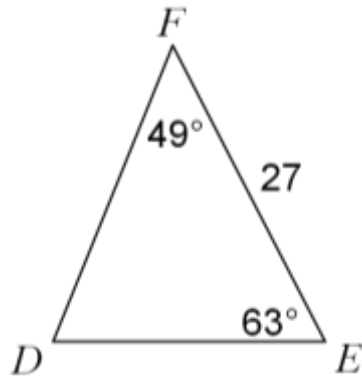
2. Find the measure of ∠T to the nearest degree.

S

18   118°   17

T   R
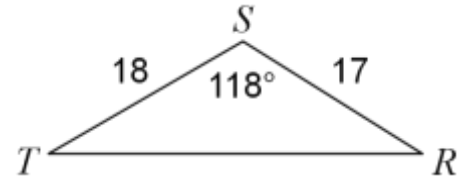
3. Find the measure of ∠D to the nearest degree.

E

14

9

D   6   F
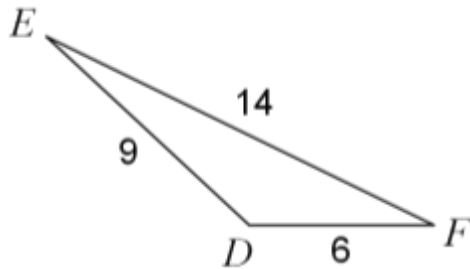
SRT-B4c

4. Modern televisions are designed to have a 16:9 width to height ratio for a cinematic widescreen aspect. Find the diagonal length, to the nearest tenth of an inch, of a TV that is 27" in height.

5. Find the perimeter of a rectangle with a diagonal length of 34 and one side of 16.

6. Dilate ΔABC about point D with scale factor 3 to create $\Delta A'B'C'$
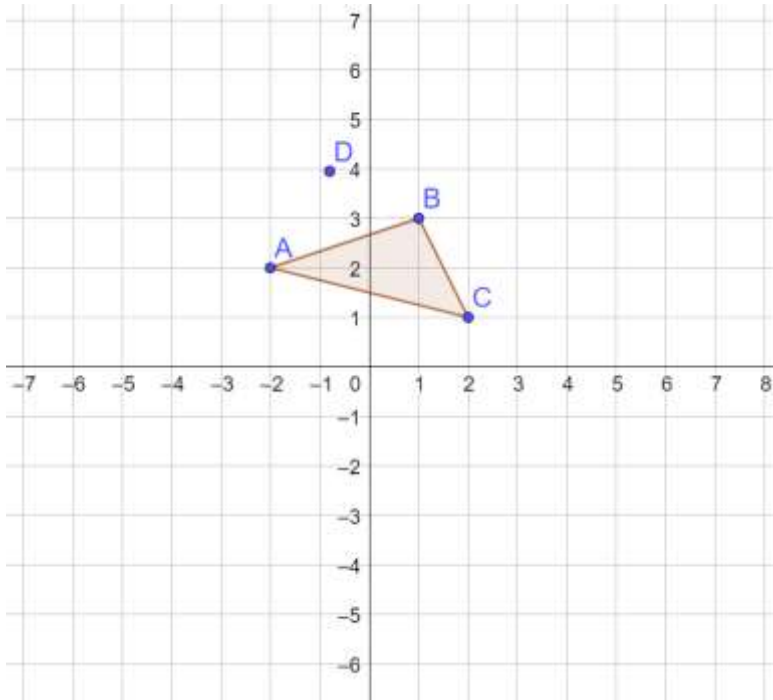
7. Find the scale factor of the dilation shown here about point E.
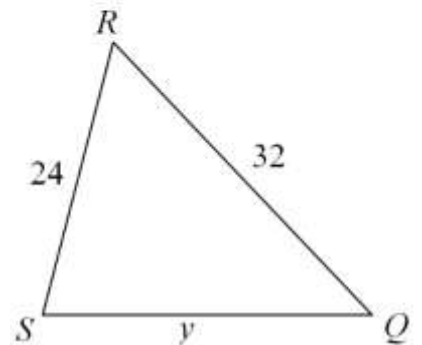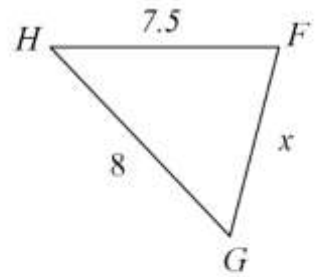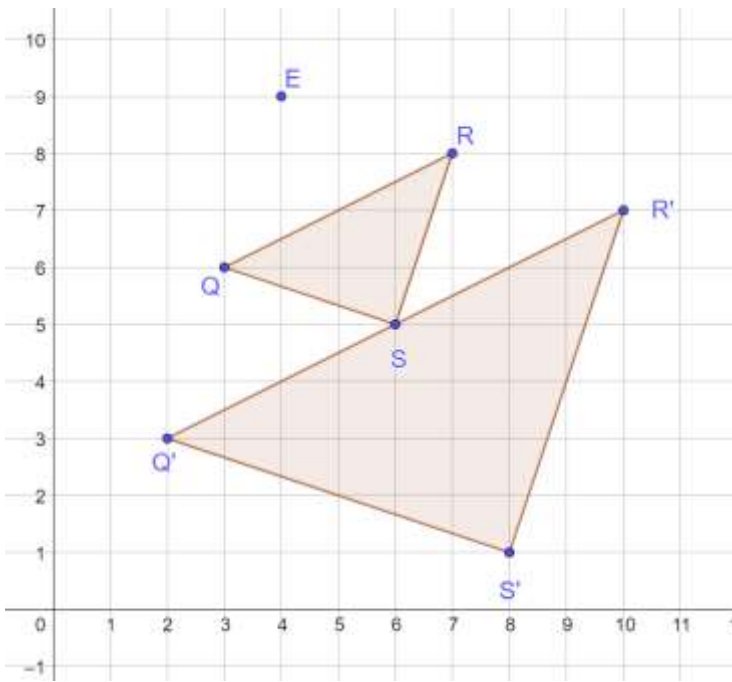
8. Given $\Delta SRQ \sim \Delta FGH$. Find the values of x and y in the figure.