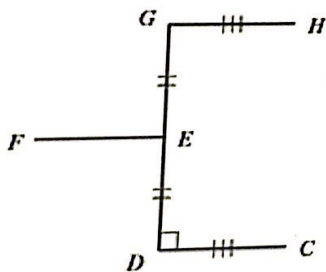


Station 1

Is the following statement true or false?

$$\overline{GE} \cong \overline{DC}$$

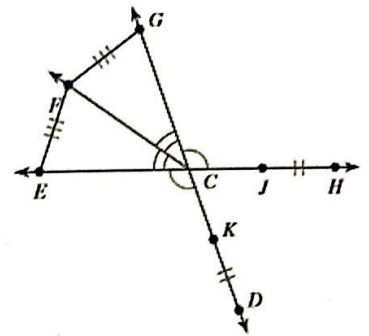
False!



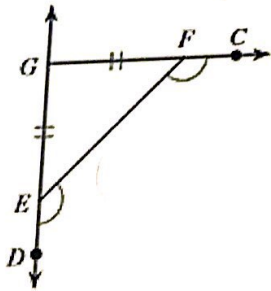
Is the following statement true or false?

$$\angle FCE \cong \angle GCF$$

True!



List all the information given by the marks in the diagram.



$$\overline{GF} \cong \overline{GE}$$

$$\angle CFE \cong \angle DEF$$

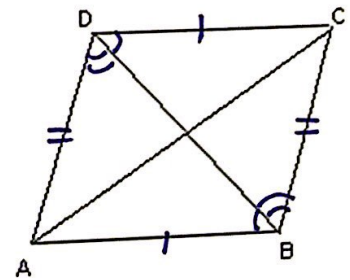
Mark the given diagram with the following information:

$$\overline{DC} \cong \overline{AB}$$

$$\overline{AD} \cong \overline{BC}$$

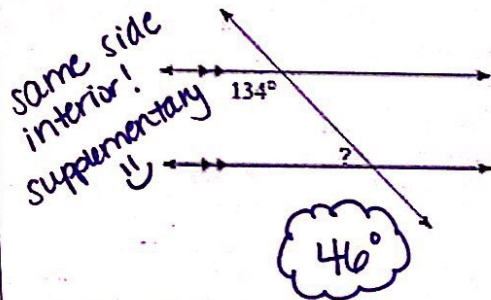
$$\angle CDB \cong \angle ABD$$

$$\angle ADB \cong \angle CBD$$

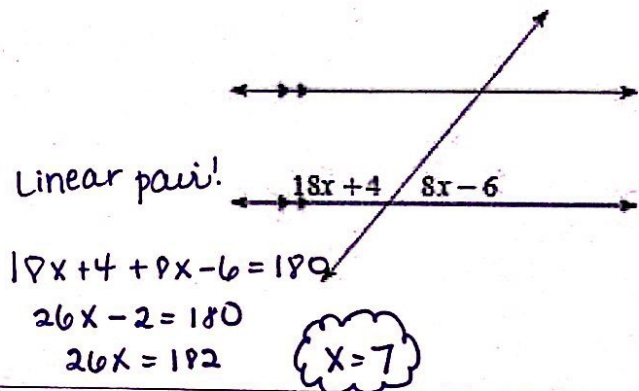


Station 2

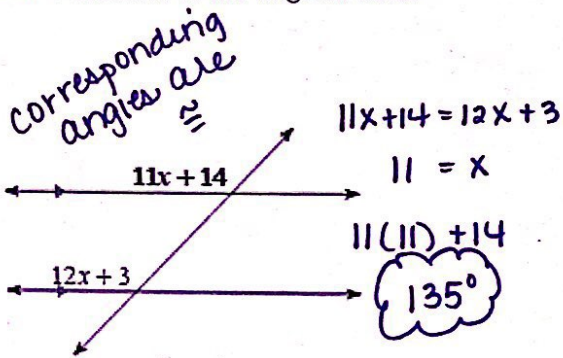
Name the relationship between the two angles and find the measure of the missing angle.



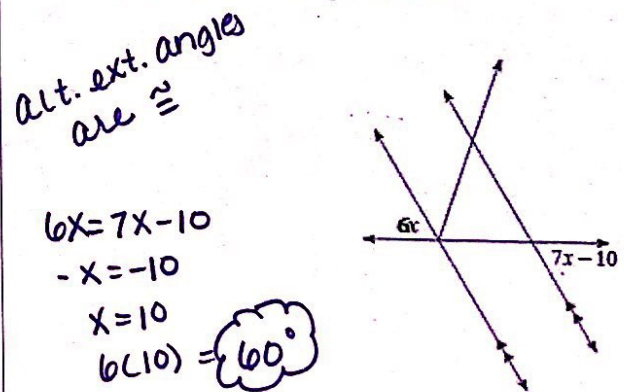
Find the value of x .



Find the measure of the angle in bold.

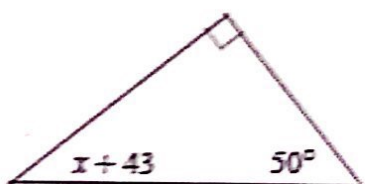


Find the measure of the angle in bold.



Station 3

Find the value of x .

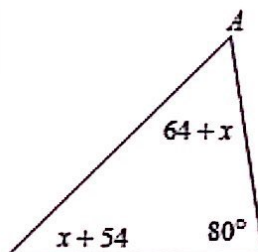


$$x + 43 + 50 + 90 = 180$$

$$x + 193 = 180$$

$$x = -13$$

Find the measure of angle A.



$$64 + x + x + 54 + 80 = 180$$

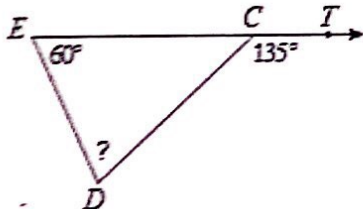
$$2x + 198 = 180$$

$$2x = -18$$

$$x = -9$$

$$m\angle A = 64 - 9 = 75^\circ$$

Find the measure of angle D.



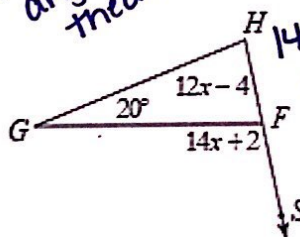
$$135 = x + 60$$

$$x = 75^\circ$$

exterior angle theorem

Find the measure of angle G.

exterior angle theorem



$$14x + 2 = 20 + 12x - 4$$

$$14x + 2 = 12x + 16$$

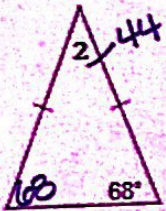
$$2x = 14$$

$$x = 7$$

Station 4

$$m\angle 2 = x + 53$$

Find the value of x.



$$x + 53 = 44$$

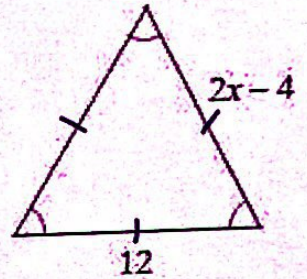
$$x = -9$$

Find the value of x.

$$2x - 4 = 12$$

$$2x = 16$$

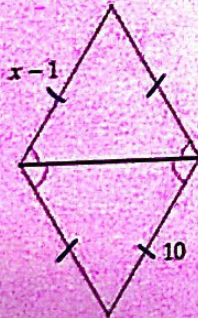
$$x = 8$$



Find the value of x.

$$x - 1 = 10$$

$$x = 11$$

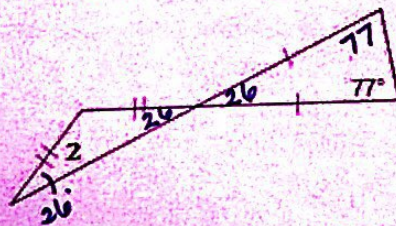


Find the value of x.

$$m\angle 2 = x + 16$$

$$x + 16 = 26$$

$$x = 10$$



Station 5

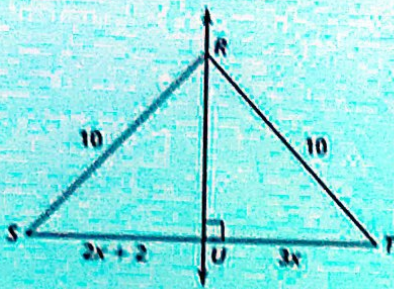
Find SU .

$$2x + 2 = 3x$$

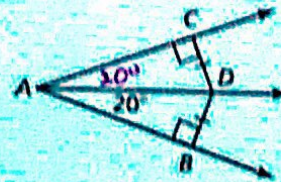
$$2 = x$$

$$SU = 2(2) + 2$$

$$SU = 6$$



Find the measure of $\angle CAB$.



40°

Find BD .

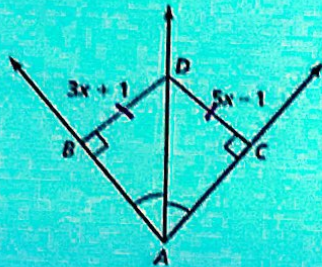
$$3x + 1 = 5x - 1$$

$$2 = 2x$$

$$x = 1$$

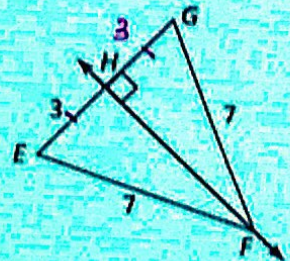
$$BD = 3(1) + 1$$

$$BD = 4$$



Find EG .

6



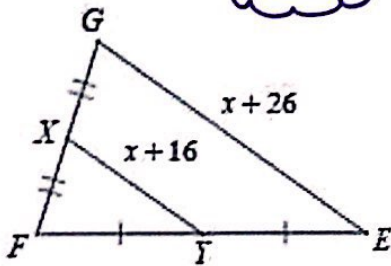
Station 6

Find the value of x .

$$2(x+16) = x+26$$

$$2x+32 = x+26$$

$$x = -6$$



Δ midsegment thm!

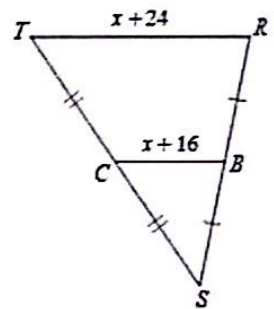
Find \overline{RT} .

$$2(x+16) = x+24$$

$$2x+32 = x+24$$

$$x = -8$$

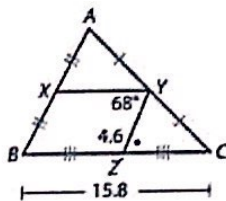
$$RT = -8 + 24 = 16$$



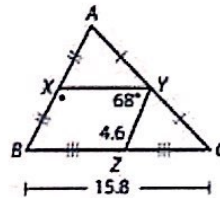
Δ midsegment thm!

Find the measure of $\angle YZC$.

$$68^\circ$$



Find the measure of $\angle BXY$.



$$112^\circ$$