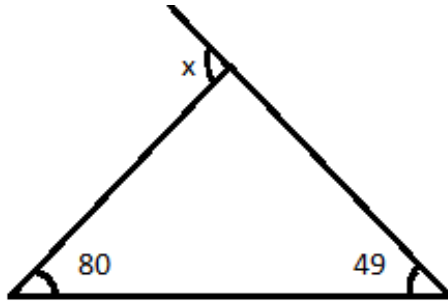


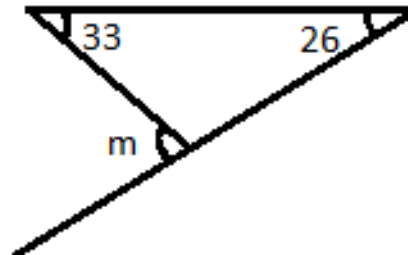
## Exterior angle property of a triangle

Find the unknown measure

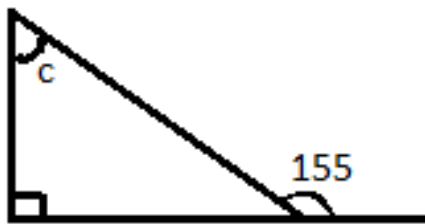
1)



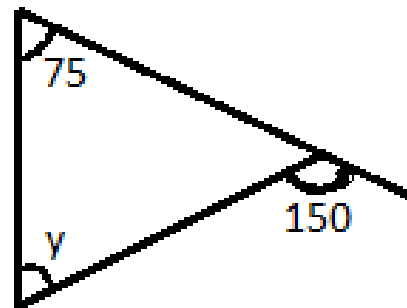
2)



3)

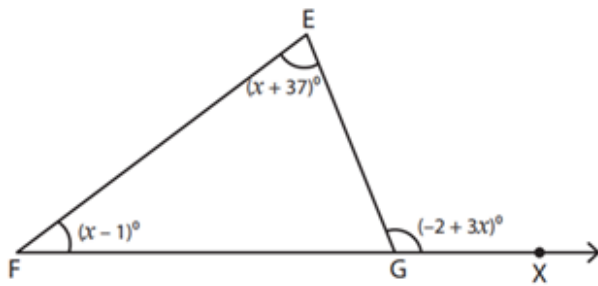


4)





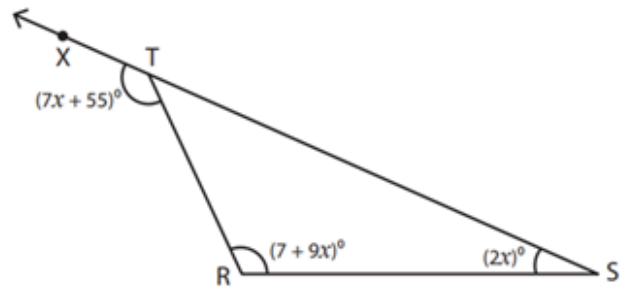
Solve for  $x$  in each triangle and find the measure of the indicated angles.



$$x = \underline{\hspace{2cm}}$$

$$m\angle FGE = \underline{\hspace{2cm}}$$

$$m\angle F = \underline{\hspace{2cm}}$$

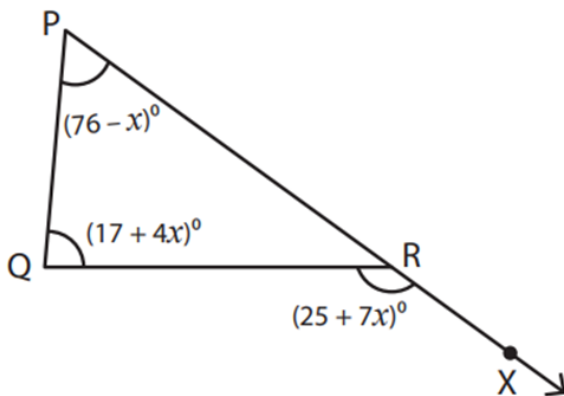


$$x = \underline{\hspace{2cm}}$$

$$m\angle XTR = \underline{\hspace{2cm}}$$

$$m\angle R = \underline{\hspace{2cm}}$$

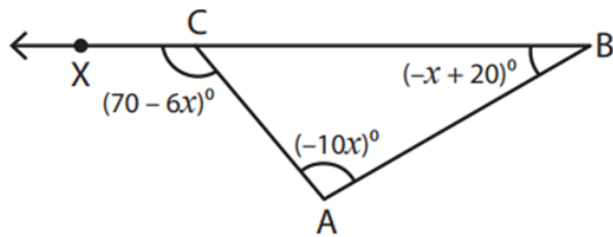
7)



$$x = \underline{\hspace{2cm}}$$

$$m\angle QRP = \underline{\hspace{2cm}}$$

8)



$$x = \underline{\hspace{2cm}}$$

$$m\angle A = \underline{\hspace{2cm}}$$



## Answers

1. 129
2. 59
3. 65
4. 75
5.  $X=38$ ;  $FGE=112$ ;  $F=37$
6.  $X=12$ ;  $XTR=139$ ;  $R=115$
7.  $X=17$ ;  $QRP=36$
8.  $X=10$ ;  $A=100$