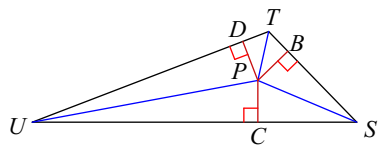


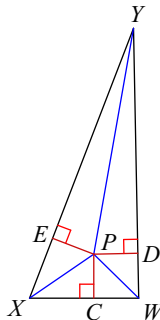
# Incenters, Triangle Angles and More!

Each figure shows a triangle with its three angle bisectors intersecting at point P.

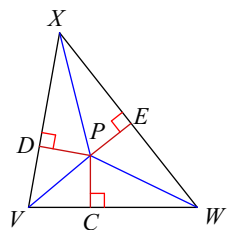
- 1) Find  $UC$  if  $PC = 6$   
and  $UP = 10$ .



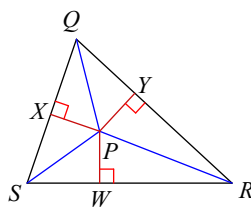
- 2)  $PD = 3$  and  $WP = 5$ .  
Find  $WD$ .



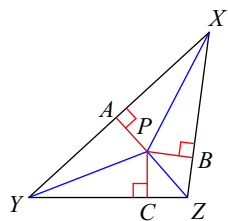
- 3) Find  $XP$  if  $PC = 1$   
and  $XD = 3$ .



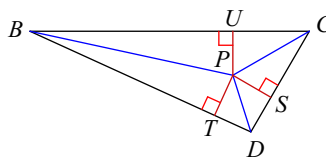
- 4)  $QX = 4$  and  $QP = 5$ .  
Find  $PX$ .



- 5)  $PB = 6$  and  $ZB = 8$ .  
Find  $ZP$ .

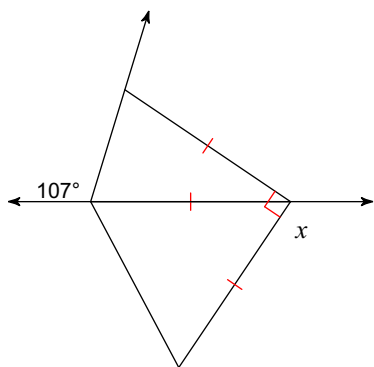


- 6)  $PT = 1$  and  $BP = 6$ .  
Find  $BT$ .

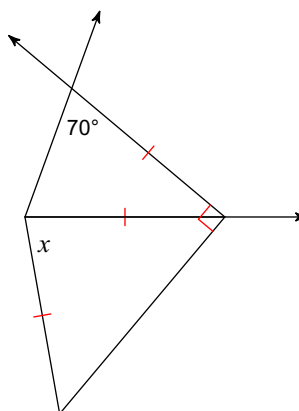


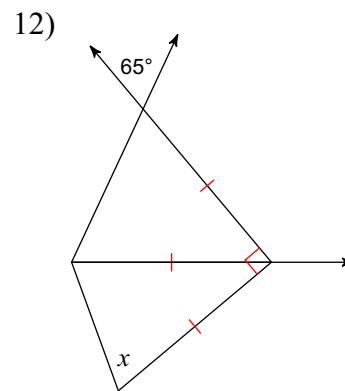
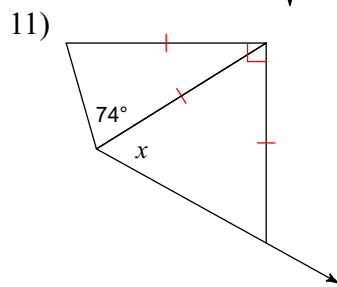
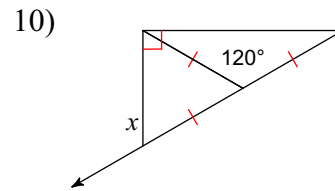
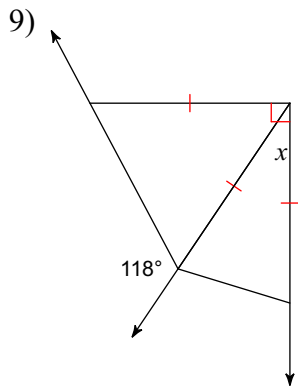
Find the value of  $x$ .

- 7)



- 8)





**Find the measure of each angle indicated.**

