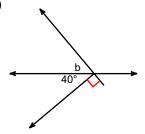
Angle Relationships: The Basics

Hour

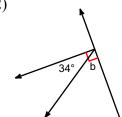
Directions: For all problems, you need to show all work and justify your set up. If Geometry is given, you will need to show the geometrical SET UP to the question.

Find the measure of angle b.

1)

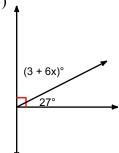


2)

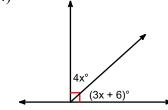


Find the value of x.

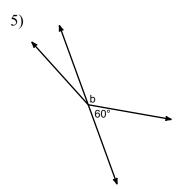
3)



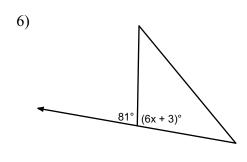
4)

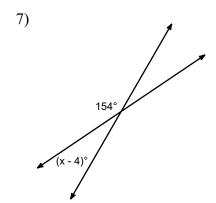


Find the measure of angle b.

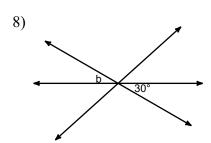


Find the value of x.



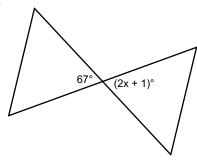


Find the measure of angle b.

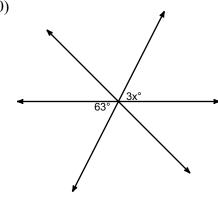


Find the value of x.

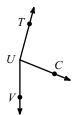
9)



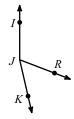
10)



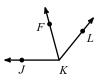
11) Find $m \angle CUV$ if $m \angle TUV = 165^{\circ}$ and $m \angle TUC = 97^{\circ}$.



12) $m \angle RJK = 4x + 8$, $m \angle IJK = 14x - 1$, and $m \angle IJR = 111^{\circ}$. Find x.

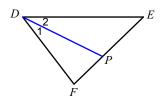


13) Find $m \angle FKL$ if $m \angle JKL = 129^\circ$, $m \angle JKF = x + 79$, and $m \angle FKL = 58 + x$.

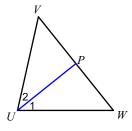


Each figure shows a triangle with one of its angle bisectors. Show all work, your Geometry and justify your SET UP!

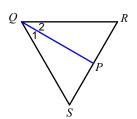
14) Find $m \angle 1$ if $m \angle 2 = 26^{\circ}$.



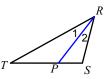
15) Find $m \angle 1$ if $m \angle 2 = 38^{\circ}$.



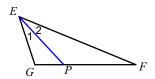
16) Find $m \angle 1$ if $m \angle SQR = 60^{\circ}$.



17) $m \angle I = 5x - 2$ and $m \angle TRS = 8x + 6$. Find x.



18) Find x if $m \angle 1 = 7x - 4$ and $m \angle GEF = 11x + 4$.



19) $m \angle 1 = 8x - 3$ and $m \angle DBC = 14x + 6$. Find $m \angle 2$.

