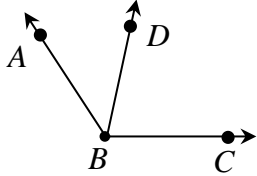
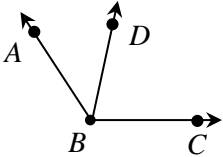
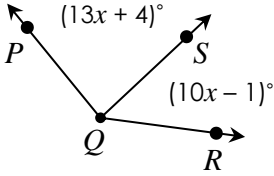
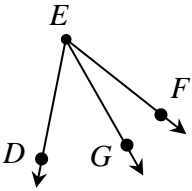
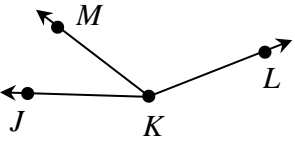
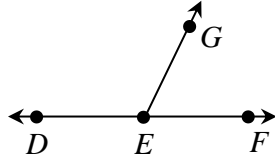


Name:	Date:
Topic:	Class:

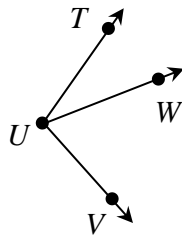
Main Ideas/Questions	Notes/Examples	
ANGLE ADDITION Postulate Examples	If D is in the interior of $\angle ABC$, then _____	
		
	Use the diagram below to answer questions 1 and 2.	1. If $m\angle ABD = 48^\circ$ and $m\angle DBC = 78^\circ$, find $m\angle ABC$.
		2. If $m\angle DBC = 74^\circ$ and $m\angle ABC = 119^\circ$, find $m\angle ABD$.
	3. If $m\angle PQR = 141^\circ$, find each measure.	
		$x =$ _____ $m\angle PQS =$ _____ $m\angle SQR =$ _____
	4. If $m\angle DEF = (7x + 4)^\circ$, $m\angle DEG = (5x + 1)^\circ$, and $m\angle GEF = 23^\circ$, find each measure.	
		$x =$ _____ $m\angle DEG =$ _____ $m\angle DEF =$ _____
	5. If $m\angle JKM = 43^\circ$, $m\angle MKL = (8x - 20)^\circ$, and $m\angle JKL = (10x - 11)^\circ$, find each measure.	
		$x =$ _____ $m\angle MKL =$ _____ $m\angle JKL =$ _____

6. If $\angle DEF$ is a straight angle, $m\angle DEG = (23x - 3)^\circ$, and $m\angle GEF = (12x + 8)^\circ$, find each measure.



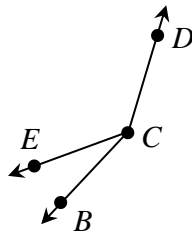
$$\begin{aligned} x &= \underline{\hspace{2cm}} \\ m\angle DEG &= \underline{\hspace{2cm}} \\ m\angle GEF &= \underline{\hspace{2cm}} \\ m\angle DEF &= \underline{\hspace{2cm}} \end{aligned}$$

7. If $m\angle TUW = (5x + 3)^\circ$, $m\angle WUV = (10x - 5)^\circ$, and $m\angle TUV = (17x - 16)^\circ$, find each measure.

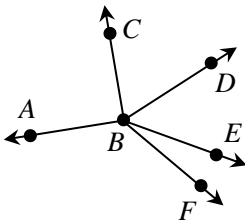


$$\begin{aligned} x &= \underline{\hspace{2cm}} \\ m\angle TUW &= \underline{\hspace{2cm}} \\ m\angle WUV &= \underline{\hspace{2cm}} \\ m\angle TUV &= \underline{\hspace{2cm}} \end{aligned}$$

8. If $m\angle ECD$ is six less than five times $m\angle BCE$, and $m\angle BCD = 162^\circ$, find each measure.



$$\begin{aligned} m\angle BCE &= \underline{\hspace{2cm}} \\ m\angle ECD &= \underline{\hspace{2cm}} \end{aligned}$$



Use the diagram to the left to answer questions 9 and 10.

9. If $m\angle ABF = (6x + 26)^\circ$, $m\angle EBF = (2x - 9)^\circ$, and $m\angle ABE = (11x - 31)^\circ$, find $m\angle ABF$.

10. If \overrightarrow{BD} bisects $\angle CBE$, $\overrightarrow{BC} \perp \overrightarrow{BA}$, $m\angle CBD = (3x + 25)^\circ$, and $m\angle DBE = (7x - 19)^\circ$, find $m\angle ABD$.