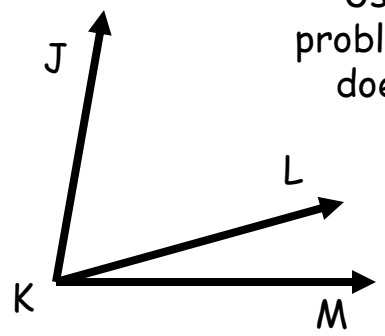
Angle Addition Practice

Name: _____

Directions – Complete the following problems; show all work.

ASSIGNMENT #12

1.



Use the same diagram for problems A and B. Information does NOT carry over from problem to problem.

A) $m\angle JKL = 46$

$m\angle LKM = 18$

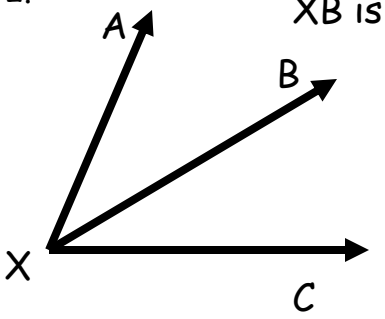
$m\angle JKM =$ _____

B) $m\angle JKL =$ _____

$m\angle LKM = 21$

$m\angle JKM = 88$

2.



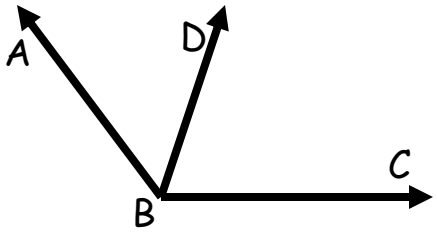
XB is the angle bisector of $\angle AXC$.

$m\angle AXB = 23$

Find the following:

$m\angle BXC =$ _____ $m\angle AXC =$ _____

3.



$m\angle ABC = 122$

$m\angle ABD = 8x + 20$

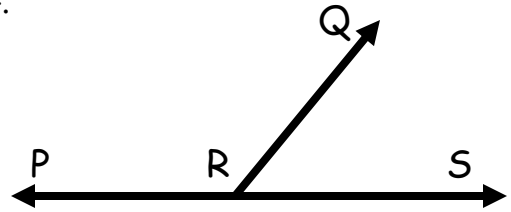
$m\angle DBC = 22x - 3$

Find the following:

$x =$ _____ $m\angle ABD =$ _____

$m\angle DBC =$ _____

4.



$m\angle PRS = 180$

$m\angle PRQ = 6x + 13$

$m\angle QRS = 3x - 4$

Find the following:

$x =$ _____ $m\angle PRQ =$ _____

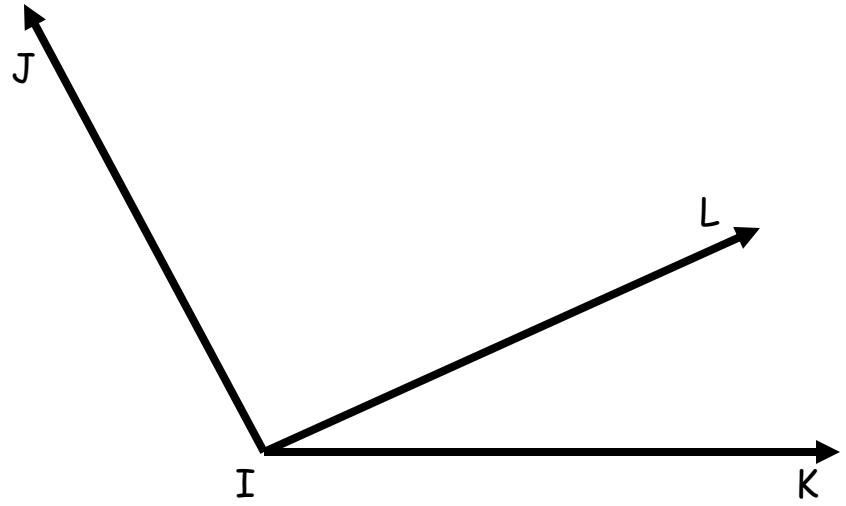
$m\angle QRS =$ _____

Angle Addition Practice

Name: _____

Directions – Complete the following problems; show all work.

5.



$m\angle JIL = 20x - 10$

$m\angle LIK = 8x - 20$

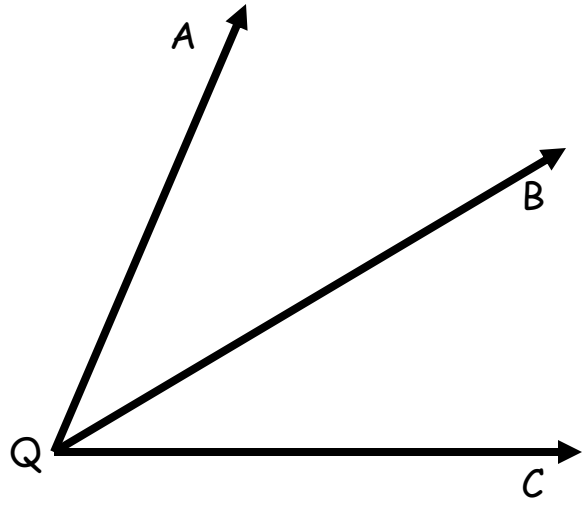
$m\angle JIK = 140 - 6x$

Find the following:

x = _____ $m\angle JIL$ = _____

$m\angle LIK$ = _____ $m\angle JIK$ = _____

6.



QB is the angle bisector of $\angle AQC$.

$m\angle AQB = 5x$

$m\angle BQC = 8x - 24$

Find the following:

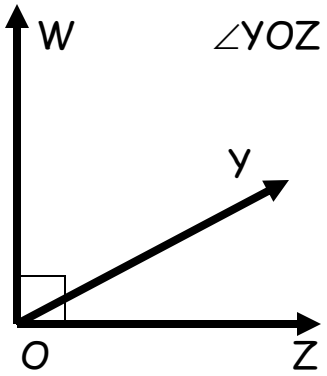
x = _____ $m\angle AQB$ = _____

$m\angle BQC$ = _____ $m\angle AQC$ = _____

Special Pairs of Angles Practice

Directions – Complete the following problems; show all work; put your answers on your answer sheet.

1.



$\angle YOZ$ & $\angle WOY$ are complementary

$m\angle WOY = 19x - 26$

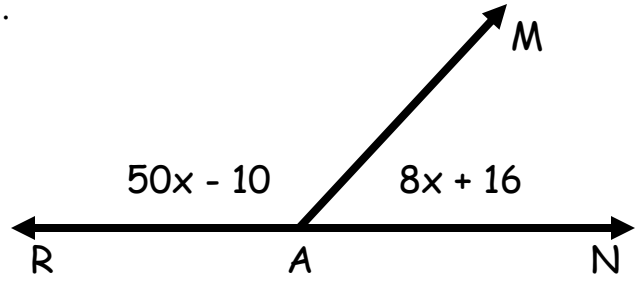
$m\angle YOZ = 10x$

Find the following:

$x =$ _____ $m\angle WOY =$ _____

$m\angle YOZ =$ _____ $m\angle WOZ =$ _____

2.

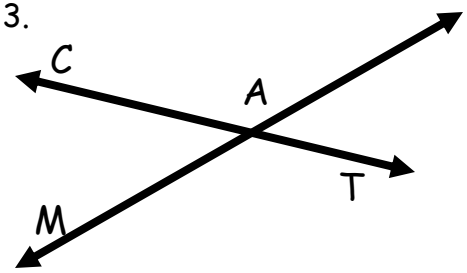


Find the following:

$x =$ _____ $m\angle RAM =$ _____

$m\angle MAN =$ _____ $m\angle RAN =$ _____

3.



$m\angle CAN = 18x - 1$

$m\angle MAT = 15x + 20$

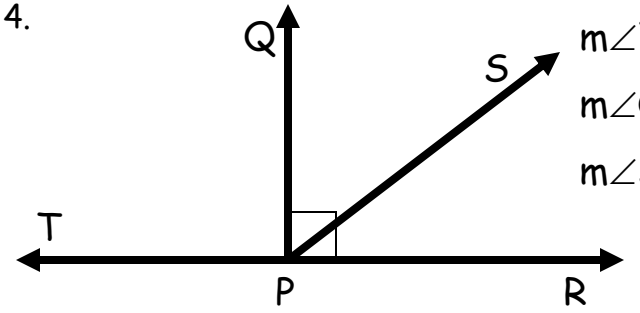
Find the following:

$x =$ _____ $m\angle CAN =$ _____

$m\angle MAC =$ _____ $m\angle TAN =$ _____

$m\angle MAT =$ _____ $m\angle MAN =$ _____

4.



$m\angle TPQ = 90°$

$m\angle QPS = 7x - 12$

$m\angle SPR = 5x + 6$

Find the following:

$x =$ _____ $m\angle TPR =$ _____

$m\angle QPS =$ _____ $m\angle SPR =$ _____

$m\angle QPR =$ _____ $m\angle SPT =$ _____