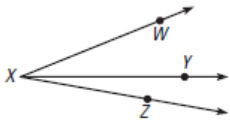


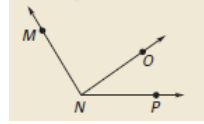
Angle Measurements

Name all angles in the figure.

1.

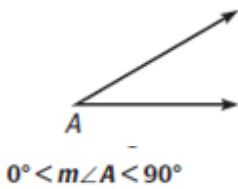


2.

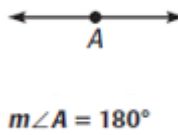


Classify each angle below.

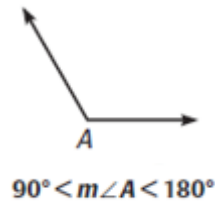
3.



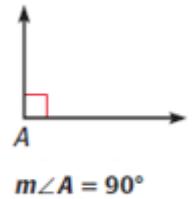
4.



5.



6.



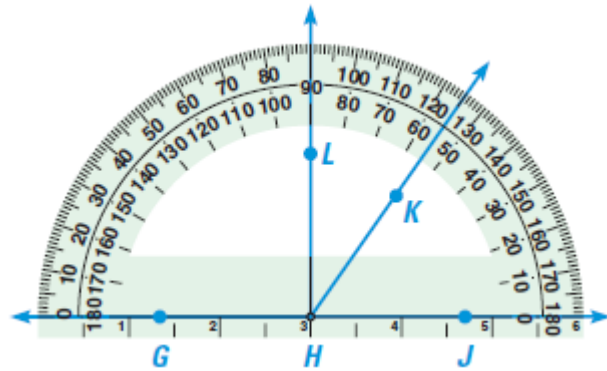
Use the diagram to determine the measure of the indicated angle.

7. $\angle KHJ$

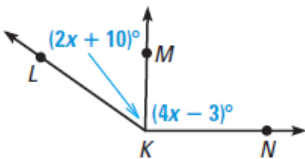
8. $\angle GHK$

9. $\angle GHJ$

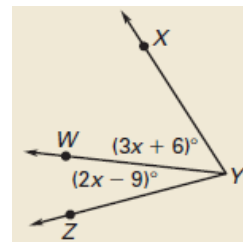
10. $\angle GHL$



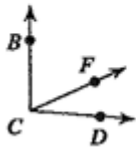
11. Given that $m\angle LKN = 43$,
find $m\angle LKM$ and $m\angle MKN$



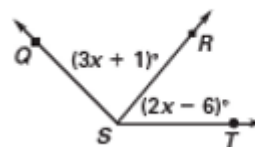
12. Given that $m\angle XYZ = 72$,
find $m\angle XYW$ and $m\angle ZYW$



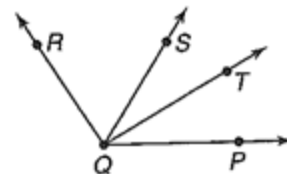
13. $m\angle FCD = x + 41$, $m\angle BCF = x + 78$,
and $m\angle BCD = 95^\circ$. Find x .



14. Given $m\angle QST = 135^\circ$, find $m\angle QSR$.

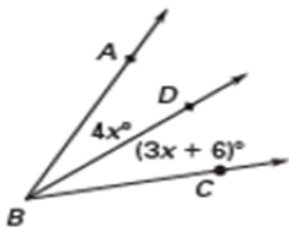


15. In the figure at the right, if \overline{QS} bisects $\angle RQP$, $m\angle RQS = 2x + 10$, and $m\angle SQP = 3x - 18$, find $m\angle SQR$.

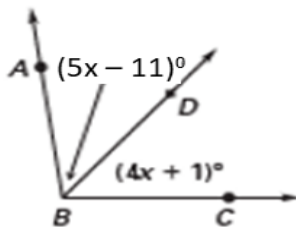


In the diagram, \overline{BD} bisects $\angle ABC$. Find $m\angle ABC$.

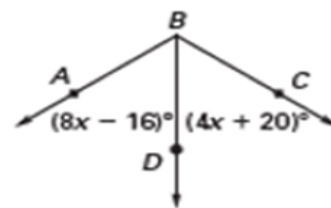
16.



17.



18.



In the figure, \overline{XP} and \overline{XT} are opposite rays and \overline{XQ} bisects $\angle PXS$. For each situation, find the value of x and the measure of the indicated angle.

19. $m\angle SXT = 4x + 1$, $m\angle QXS = 2x - 2$,
 $m\angle QXT = 125$; $m\angle QXS$
20. $m\angle PXR = 3x$, $m\angle RXT = 5x + 20$, $m\angle RXT$
21. $m\angle RXQ = x + 15$, $m\angle RXS = 5x - 7$,
 $m\angle QXS = 3x + 5$; $m\angle RXS$
22. $m\angle TXS = x + 3$, $m\angle SXR = 2x + 9$,
 $m\angle RXP = 4x - 7$; $m\angle PXS$
23. $m\angle RXQ = 2x + 7$, $m\angle RXP = 3x - 11$,
 $m\angle PXS = x + 37$; $m\angle QXS$

