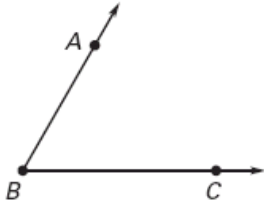
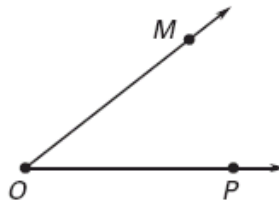


Write two names for the angle. Then name the vertex and the sides of the angle.

1.



2.



3.



Classify the angle with the given measure as *acute*, *obtuse*, *right*, or *straight*.

4. $m\angle A = 115^\circ$

5. $m\angle A = 85^\circ$

6. $m\angle A = 90^\circ$

7. $m\angle A = 170^\circ$

Give another name for the angle in the diagram. Tell whether the angle appears to be *acute*, *obtuse*, *right*, or *straight*.

8. $\angle JKN$

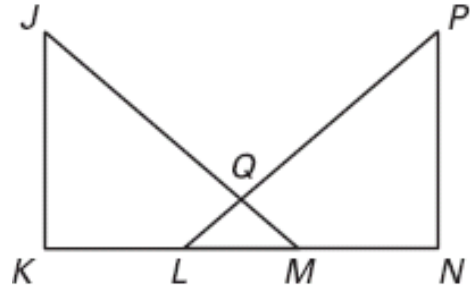
9. $\angle KMN$

10. $\angle PQM$

11. $\angle JML$

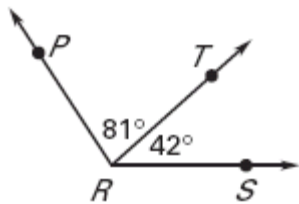
12. $\angle QPN$

13. $\angle PLK$

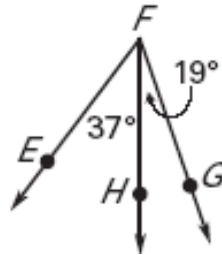


Find the indicated angle measure.

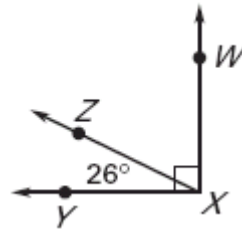
14. $m\angle PRS = \underline{\quad? \quad}$



15. $m\angle EFG = \underline{\quad? \quad}$

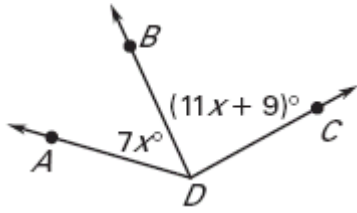


16. $m\angle WXZ = \underline{\quad? \quad}$

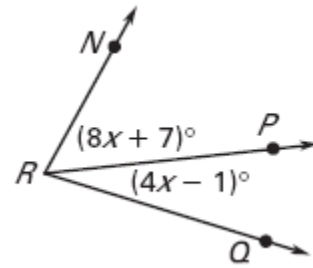


Use the given information to find the indicated angle measure.

17. Given $m\angle ADC = 135^\circ$, find $m\angle BDC$.

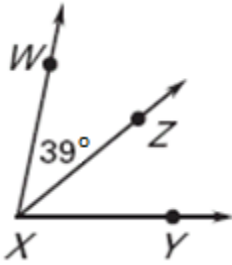


18. Given $m\angle NRQ = 78^\circ$, find $m\angle PRQ$.

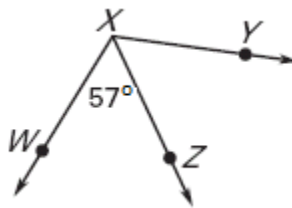


Given that \overline{XZ} bisects $\angle WXY$, find the two angle measures not given in the diagram.

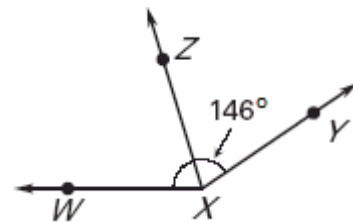
19.



20.

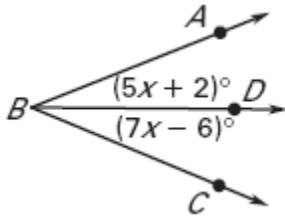


21.

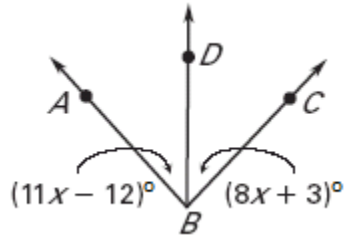


In each diagram, \overrightarrow{BD} bisects $\angle ABC$. Find $m\angle ABC$.

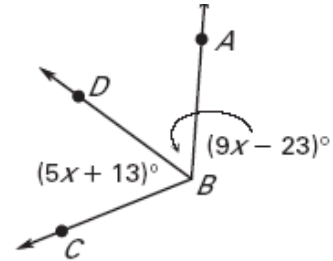
22.



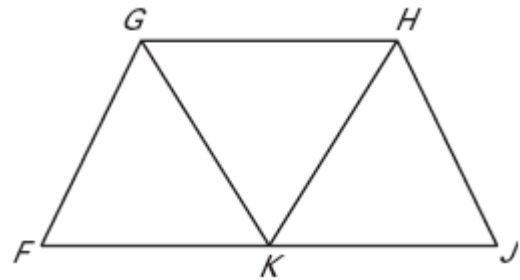
23.



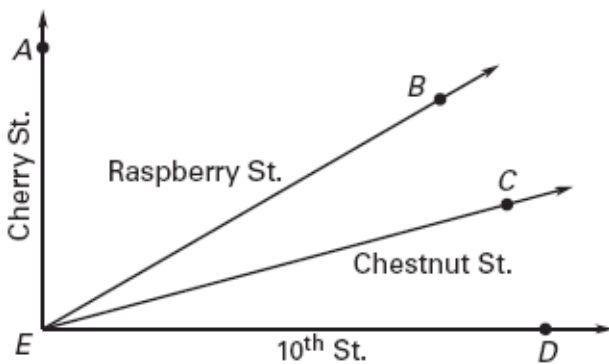
24.



25. **Bridge** In the bridge shown below, the measure of $\angle FGH$ is 116° and \overrightarrow{GK} bisects $\angle FGH$. What is the measure of $\angle FGK$?



26. **Streets** The diagram shows the intersection of four streets. In the diagram, $m\angle AEB = 60^\circ$, $m\angle BEC = m\angle CED$, and $\angle AED$ is a right angle. What is the measure of $\angle CED$?



Answer Key

- 1) Names: $\angle ABC, \angle CBA$; Vertex: B ; Sides: $\overrightarrow{BA}, \overrightarrow{BC}$
- 2) Names: $\angle MOP, \angle POM$; Vertex: O ; Sides: $\overrightarrow{OM}, \overrightarrow{OP}$
- 3) Names: $\angle EFG, \angle GFE$; Vertex: F ; Sides: $\overrightarrow{FE}, \overrightarrow{FG}$
- 4) Obtuse
- 5) Acute
- 6) Straight
- 7) Obtuse
- 8) $\angle NKJ$; Right
- 9) $\angle NMK$; Straight
- 10) $\angle MQP$; Acute
- 11) $\angle LMJ$; Acute
- 12) $\angle NPQ$; Acute
- 13) $\angle KLP$; Obtuse
- 14) 123°
- 15) 56°
- 16) 64°
- 17) $x = 7, 86^\circ$
- 18) $x = 6, 23^\circ$
- 19) $m\angle ZXY = 39^\circ, m\angle WXY = 78^\circ$
- 20) $m\angle YXZ = 57^\circ, m\angle WXY = 114^\circ$
- 21) $m\angle WXZ = 73^\circ, m\angle YXZ = 73^\circ$
- 22) $x = 4, 44^\circ$
- 23) $x = 5, 86^\circ$
- 24) $x = 9, 116^\circ$
- 25) 58°
- 26) 15°