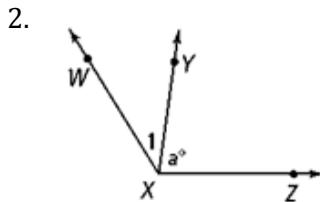
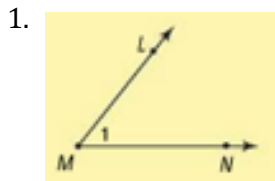


What are two other names for $\angle 1$. Name the vertex and the sides of $\angle 1$.



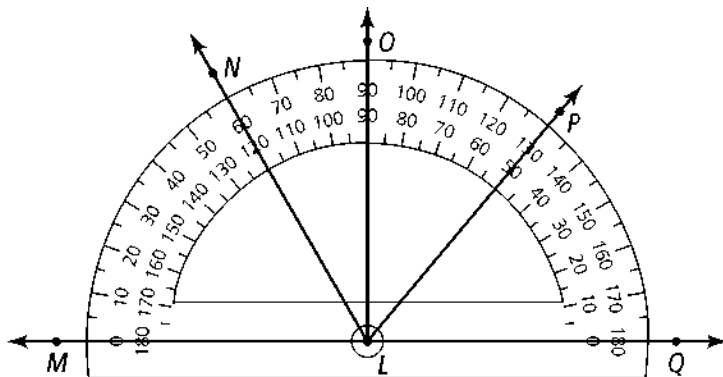
Use the diagram below. Find the measure of each angle. Then classify the angle as *acute*, *right*, *obtuse* or *straight*.

3. $m\angle MLP$

4. $m\angle PLN$

5. $m\angle MLQ$

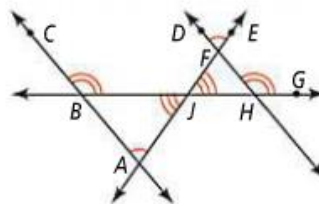
6. $m\angle QLO$



Use the diagram at the right to complete each statement.

7. $\angle BAJ \cong$ ____.

8. If $m\angle GHF = 120^\circ$, then $m\angle$ _____ = 120° .

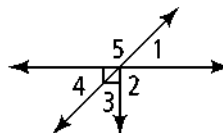


Use the diagram at the right to determine if each statement is true or false.

9. $\angle 2$ and $\angle 5$ are adjacent angles.

10. $\angle 1$ and $\angle 5$ are a linear pair.

11. $\angle 4$ and $\angle 5$ are complementary.



Name an angle or angles in the diagram described by each of the following.

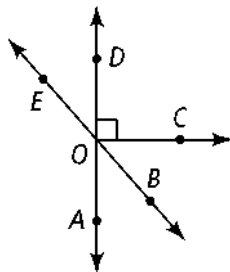
12. complementary to $\angle BOC$

13. supplementary to $\angle EOA$

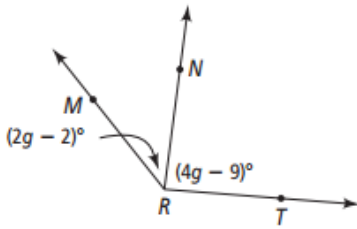
14. A pair of vertical angles

15. An angle adjacent to $\angle EOD$

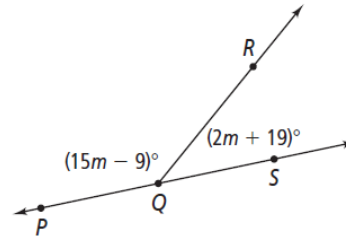
16. An angle that forms a linear pair with $\angle COB$.



17. If $m\angle MRT = 133$, what are $m\angle MRN$ and $m\angle NRT$?



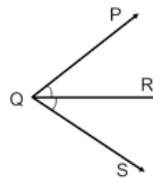
18. Use the figure below to find the value of m , $m\angle PQR$ and $m\angle SQR$.



19. $\angle 1$ and $\angle 2$ are supplementary angles. If $m\angle 1 = 4y + 7$ and $m\angle 2 = 9y + 4$. What is $m\angle 2$?

20. $\angle XYZ$ and $\angle XYW$ are complementary angles. If $m\angle XYZ = 3x + 9$ and $m\angle XYW = 5x + 9$. What are $m\angle XYZ$ and $m\angle XYW$?

21. \overline{QR} bisects $\angle PQS$. If $m\angle PQR = 60$, find $m\angle RQS$ and $m\angle PQS$.

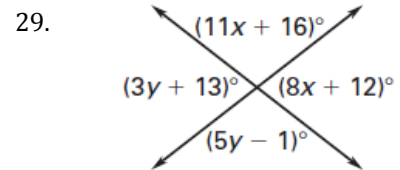
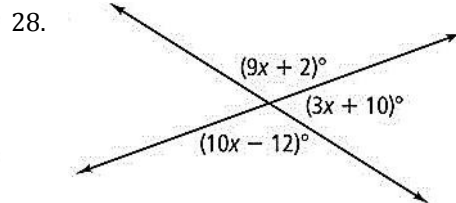
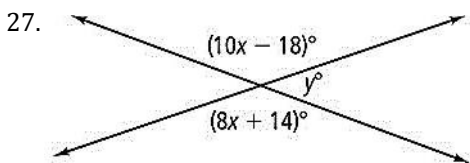
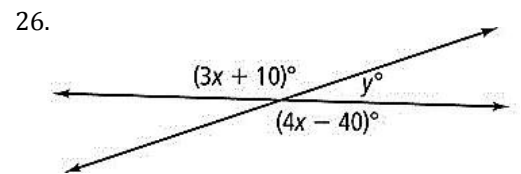
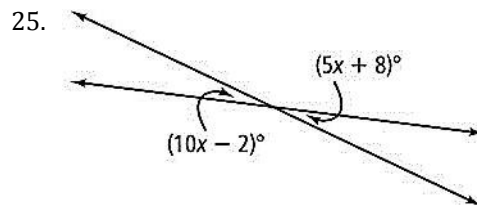
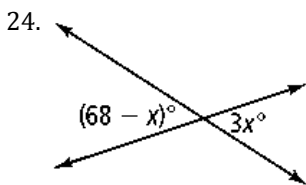


\overline{QS} bisects $\angle PQR$. Solve for x and find $m\angle PQR$.

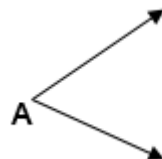
22. $m\angle PQS = 3x$; $m\angle SQR = 5x - 20$

23. $m\angle PQS = 2x + 1$; $m\angle RQS = 4x - 15$

Solve for the variables.



30. Construct a congruent angle.



31. Construct an angle bisector.

