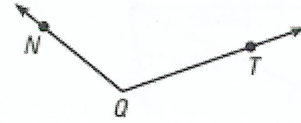


1. Write three names for the angle shown. Then name the vertex and sides of the angle.

$\angle Q$, $\angle NQT$, $\angle TQN$

Vertex: Point Q Sides: \vec{QT} , \vec{QN}



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

2. $m\angle W = 180^\circ$

3. $m\angle X = 35^\circ$

4. $m\angle Y = 90^\circ$

5. $m\angle Z = 179.5^\circ$

Straight

Acute

Right

Obtuse

Use a protractor to find the measure of the given angle (You might need to extend the lines or rays). Then classify the angle as *acute*, *obtuse*, *right* or *straight*.

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

7. $m\angle GFH = 60^\circ$

Right

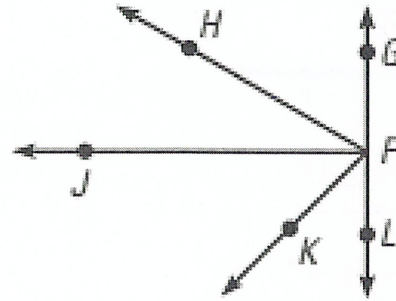
Acute

8. $m\angle GFK = 135^\circ$

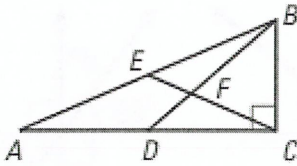
9. $m\angle GFL = 180^\circ$

Obtuse

Straight



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



10. $\angle ACB$ $\angle BCA$

Right

11. $\angle BFD$ $\angle DFB$

Straight

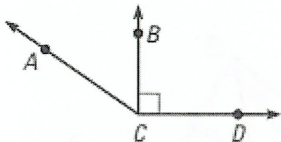
12. $\angle AEC$ $\angle CEA$

Obtuse

13. $\angle BAC$, $\angle CAB$ OR $\angle A$

Acute

14. Which is a correct name for the obtuse angle in the diagram?



A. $\angle ACB$

B. $\angle ACD$

C. $\angle BCD$

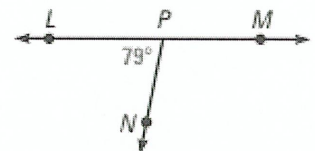
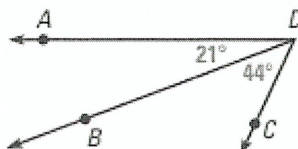
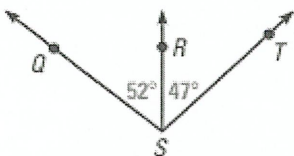
D. $\angle C$

Find the indicated angle measure.

15. $m\angle QST = 99^\circ$

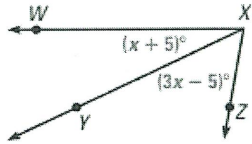
16. $m\angle ADC = 65^\circ$

17. $m\angle NPM = 101^\circ$



Use the given information to find the indicated angle measure. *** Show your work ***

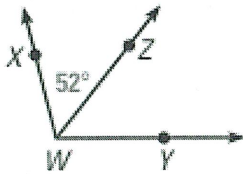
18. Given: $m\angle WXZ = 80^\circ$; find $m\angle YXZ$



$m\angle YXZ = 55^\circ$

Given that \overline{WZ} bisects $\angle XWY$, find the two angle measure not given in the diagram.

20.



$m\angle ZWY = 52^\circ$

$m\angle XWY = 104^\circ$

Find the indicated angle measure.

22. $a^\circ = 38^\circ$

23. $b^\circ = 38^\circ$

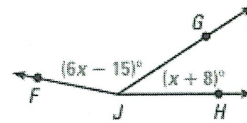
24. $c^\circ = 142^\circ$

25. $d^\circ = 37^\circ$

26. $e^\circ = 53^\circ$

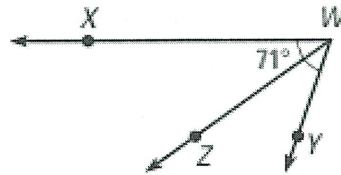
27. $f^\circ = 37^\circ$

19. Given: $m\angle FJH = 168^\circ$; find $m\angle FJG$



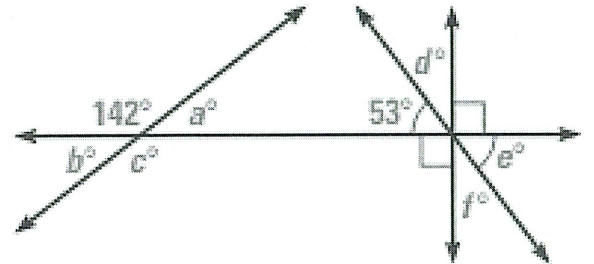
$m\angle FJG = 135^\circ$

21.



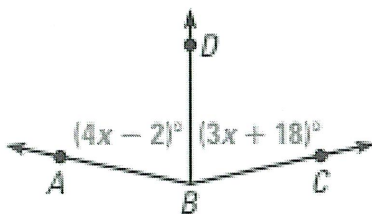
$m\angle XWZ = 35.5^\circ$

$m\angle YWZ = 35.5^\circ$



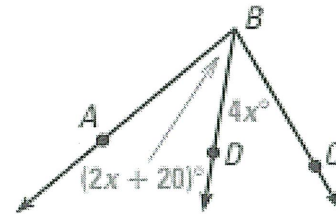
In each diagram, \overline{BD} bisects $\angle ABC$. Find $m\angle ABC$. *** Show your work ***

28.



$m\angle ABC = 156^\circ$

29.



$m\angle ABC = 80^\circ$