

1st Term Review

Date _____ Period _____

Evaluate each expression.

1) $(11 + 4) \div 3$

2) $4 \div 2 + 4$

3) $(5 + 3) \times 6$

4) $(13 - 1) \div 6$

Evaluate each using the values given.

5) $m - p \div 3$; use $m = 3$, and $p = 3$

6) $(q + p) \div 2$; use $p = 1$, and $q = 1$

7) $2 + n - p$; use $n = 4$, and $p = 4$

8) $p + 3 - r$; use $p = 4$, and $r = 1$

Solve each equation for the indicated variable.

9) $u = \frac{a}{k}$, for a

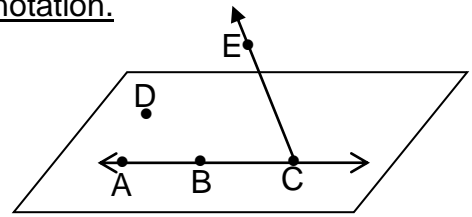
10) $z = m + x$, for x

11) $u = ak$, for a

12) $g = ca$, for a

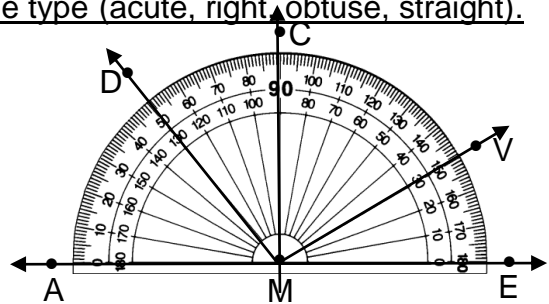
Use the diagram at the right for problems 13-16. Use correct notation.

13. Name 3 points that are collinear. _____
14. Name 3 points that are non-collinear. _____
15. Name 4 non-coplanar points. _____
16. Name 2 intersecting lines. _____



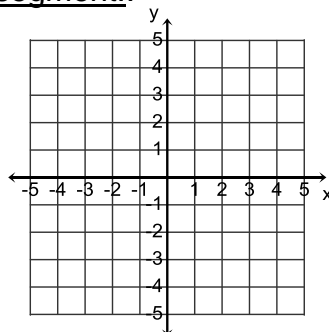
Find the measure of each angle and identify the angle type (acute, right, obtuse, straight).

17. $\angle AMC$ _____
18. $\angle DMV$ _____
19. $\angle AME$ _____

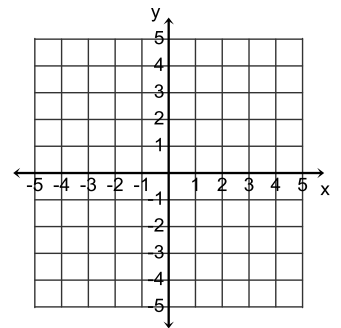


Find the length of the segment.

20. $(3, 3)$ $(-5, -3)$



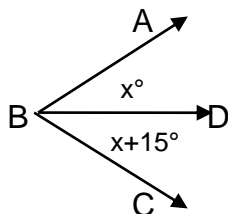
21. $(-2, 4)$ $(4, 2)$



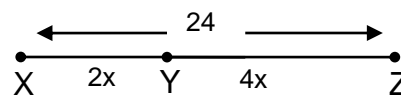
Distance Formula: $\sqrt{(x-x)^2 + (y-y)^2}$

Solve for x. Show your work.

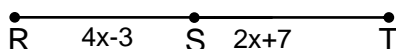
22. \overline{BD} bisects $\angle ABC$.



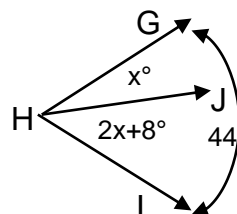
- 23.

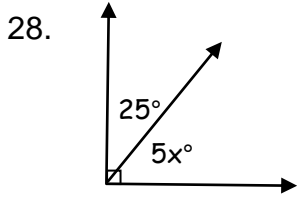
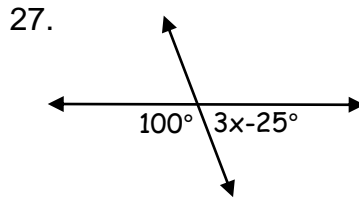
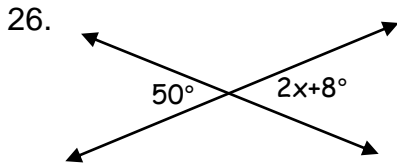


24. S is the midpoint of \overline{RT} .



- 25.





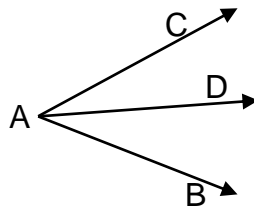
29. Two angles are supplementary. One angle is 3 times the measure of its supplement. Find the measure of both angles.

30. Two angles are complimentary. One angle is 15 more than twice the compliment. Find the measure of both angles.

Questions 31 – 37, (1) Label the diagram (2) Solve for x and (3) state the property used to solve.

31. ___

\overline{AD} is an angle bisector
 $m\angle CAD = (3x+1)^\circ$
 $m\angle DAB = (x+7)^\circ$

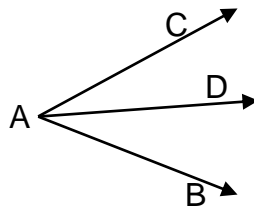


X = _____

Property: _____

32. ___

$m\angle BAD = (2x+15)^\circ$
 $m\angle CAD = (3x)^\circ$
 $m\angle BAC = 30^\circ$



X = _____

Property: _____

33. ___

$XY = 3x+5$
 $YZ = 5x+3$
 $XZ = 48$



X = _____

Property: _____

34. ___



D is the midpoint of \overline{CE}
 $CD = 4x + 5$
 $DE = 5x - 12$

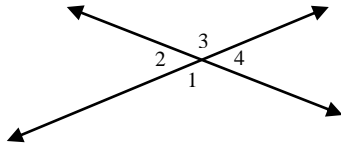
$X =$ _____

Property: _____

Questions 35 – 37, (1) Label the diagram (2) Solve for x and (3) state the property used to solve.

35. ___

$m\angle 1 = 56^\circ$
 $m\angle 3 = x$

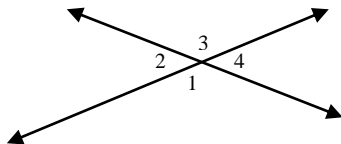


$X =$ _____

Property: _____

36. ___

$m\angle 2 = x$
 $m\angle 3 = 2x + 30$

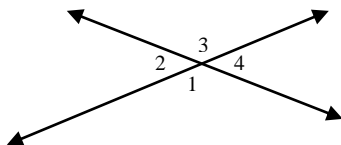


$X =$ _____

Property: _____

37. ___

$m\angle 2 = 3x - 15$
 $m\angle 1 = 2x - 5$



$X =$ _____

Property: _____

Questions 11-14, Label the appropriate angle or name the angle given.

38. ___

_____ : $\angle COD$ and $\angle EOD$

39. ___

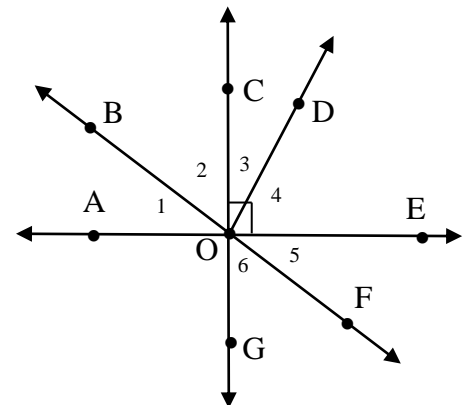
_____ : $\angle 5$ and $\angle 4$

40. ___

Supplementary Angles: _____

41. ___

Vertical Angles: _____



42. The supplement of an angle is 9 times the measure of the angle itself. Find the angle.

43. The complement of an angle is two times plus 30 the measure of the angle itself. Find the angle.