

NAME : _____

CLASS : _____

DATE : _____

1. What are complementary angles?

a) Angles that add up to 180°

c) Angles that are equal to each other

b) Angles that add up to 90°

d) Angles that are opposite of each other when lines intersect.

2. What are supplementary angles?

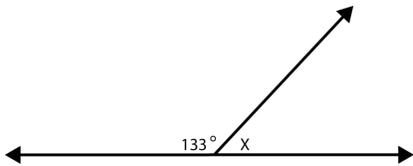
a) Angles that add up to 180°

c) Angles that are equal to each other

b) Angles that add up to 90°

d) Angles that are opposite of each other when lines intersect

3.



This diagram shows what type of angle pairs? Select all that apply.

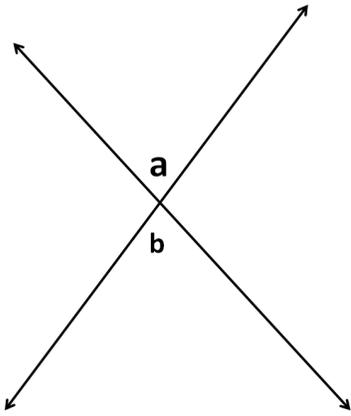
a) Supplementary

c) Linear Pair

b) Complementary

d) There are no angle pairs

4.



Identify the angle pair of a & b

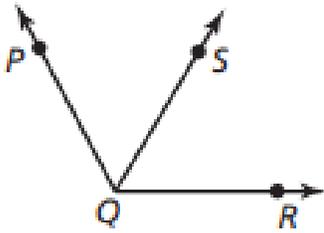
a) adjacent angles

b) complementary angles

c) linear pair

d) vertical angles

5.



\overrightarrow{QS} bisects $\angle PQR$

If $m\angle PQS = 63$, then find $m\angle RQS$.

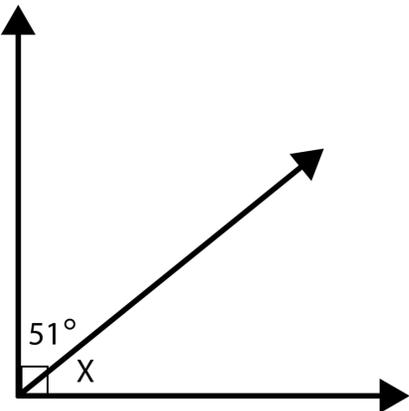
a) 27

b) 31.5

c) 63

d) 126

6.



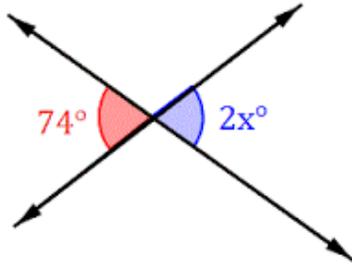
What is the value of x?

a) 51°

b) 90°

c) 39°

7.



What is the value of x ?

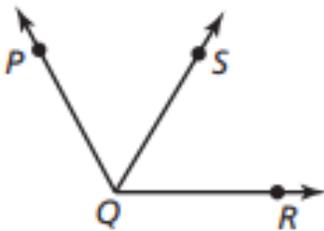
a) 37

b) 72

c) 108

d) 18

8.



\overrightarrow{QS} bisects $\angle PQR$

If $m\angle RQS = 71$,
then find $m\angle PQR$.

a) 19

b) 35.5

c) 71

d) 142

9. If one angle in a pair of supplementary angles measures 75° , what is the measure of the other angle?

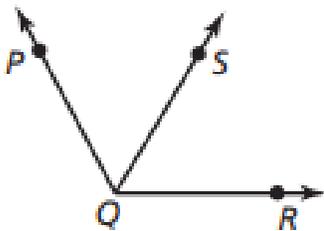
a) 105

b) 15

c) 90

d) 180

10.



\overrightarrow{QS} bisects $\angle PQR$

If $m\angle PQS = 84$ and $m\angle SQR = (3x + 3)$, solve for x WORK
REQUIRED!

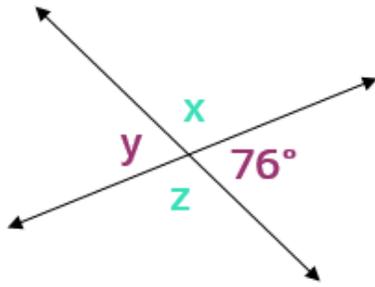
a) $x = 29$

b) $x = 27$

c) $x = 26$

d) $x = 10$

11.



Find the values of x , y and z

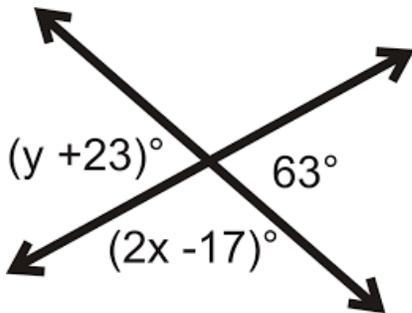
a) $x = y = z = 76$

b) $y = 76, x = z = 104$

c) $x = 76, y = z = 104$

d) $x = y = z = 104$

12.



Find the value of x and y . WORK REQUIRED!

a) $x = 20$ and $y = 94$

b) $x = 67$ and $y = 40$

c) $x = 117$ and $y = 63$

13. Given $T(8,-8)$ and $P(5,5)$, what is TP ? {remember that no symbol means "length between the points"}

a) 13.3

b) 16

c) -12.6

d) $(6.5, -1.5)$

e) 2.4

14. $H(20,8)$ and $R(-2, -4)$. What is the midpoint of \overline{HR} ?

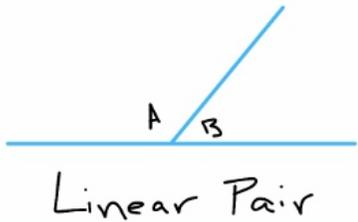
a) $(18, 4)$

b) $(11, 6)$

c) $(9, 2)$

d) $(-9, 2)$

15.



$A = (3x - 12)^\circ$ and $B = (x + 16)^\circ$. Solve for x . WORK REQUIRED!

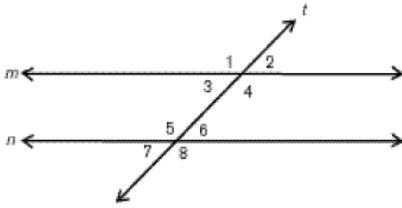
a) $x = 44$

b) $x = 14$

c) $x = 46$

d) $x = 7$

16.



Which are examples of corresponding angles?

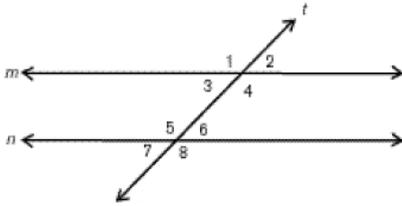
a) $\angle 1$ & $\angle 2$

b) $\angle 1$ & $\angle 5$

c) $\angle 4$ & $\angle 6$

d) $\angle 7$ & $\angle 3$

17.



Which are examples of alternate-interior angles?

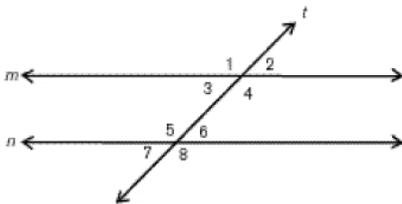
a) $\angle 1$ & $\angle 8$

b) $\angle 4$ & $\angle 5$

c) $\angle 4$ & $\angle 6$

d) $\angle 6$ & $\angle 3$

18.



Which are examples of same-side interior angles?

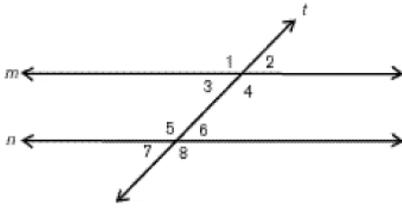
a) $\angle 1$ & $\angle 7$

b) $\angle 4$ & $\angle 8$

c) $\angle 4$ & $\angle 6$

d) $\angle 5$ & $\angle 3$

19.



If $m \parallel n$, and $m\angle 3 = (2x + 4)^\circ$ and $m\angle 7 = 80^\circ$, what is the value of x and what justifies the angle relationship? WORK REQUIRED

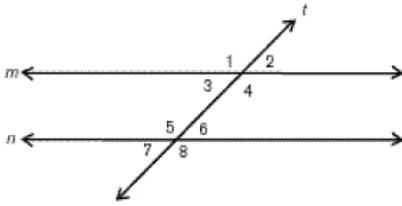
a) $x = 38$ b/c corresponding angles are =

b) $x = 38$ b/c alternate-interior angles are =

c) $x = 48$ b/c same-side interior angles are supplementary

d) $x = 48$ b/c same-side exterior angles are supplementary

20.



If $m \parallel n$, and $m\angle 3 = (5y - 12)^\circ$ and $m\angle 6 = 63^\circ$, what is the value of y and what justifies the angle relationship? WORK REQUIRED

a) $y = 15$ b/c corresponding angles are =

b) $y = 15$ b/c alternate-interior angles are =

c) $y = 25.8$ b/c same-side interior angles are supplementary

d) $x = 25.8$ b/c same-side exterior angles are supplementary