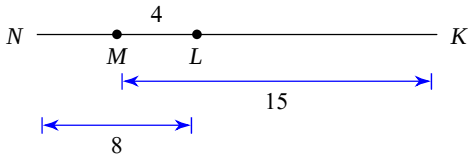
Int Math Name_____

Sem2 - practice TEST 2 (Unit 6)

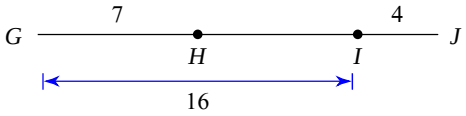
Date_____ Period____

Find the length indicated.

1) Find *NK*



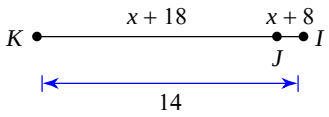
2) Find *HJ*



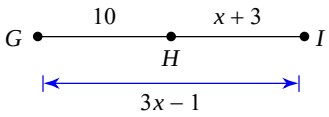
3) *AD* = 26, *CD* = 6, and *AB* = 11. Find *BC*.

4) Find *AB* if *AD* = 19, *CD* = 4, and *BC* = 3.

5) Find *KJ*



6) Find *HI*

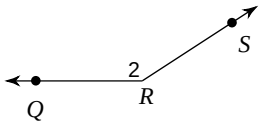


7) Find *AB* if *AC* = 22, *BC* = 12*x* – 1, and *AB* = 12*x* – 1.

8) Find *AC* if *AC* = 5*x* + 5, *AB* = 4*x*, and *BC* = 8.

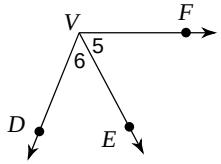
Name each angle in four ways.

9)



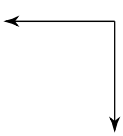
Name all the angles that have *V* as a vertex.

10)

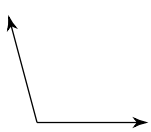


Classify each angle as acute, obtuse, right, or straight.

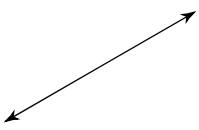
11)



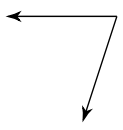
12)



13)



14)



Classify each angle as acute, obtuse, right, or straight .

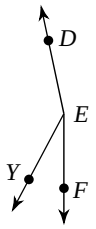
15) 90°

16) 93°

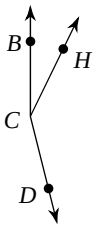
17) 56°

18) 180°

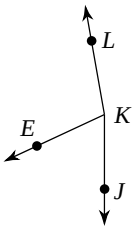
19) Find $m\angle FED$ if $m\angle FEY = 28°$ and $m\angle YED = 140°$.



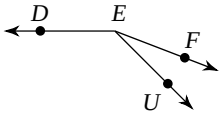
20) $m\angle HCD = 140°$ and $m\angle BCH = 26°$. Find $m\angle BCD$.



21) $m\angle EKL = 12x - 3$, $m\angle JKE = -7 + 8x$, and $m\angle JKL = 170°$. Find $m\angle JKE$.

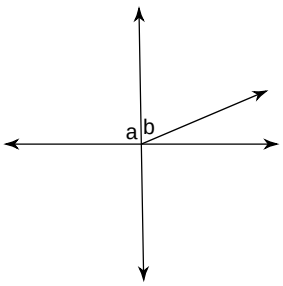


22) Find $m\angle UED$ if $m\angle UED = 11x + 3$, $m\angle FED = 14x - 9$, and $m\angle FEU = 24°$.

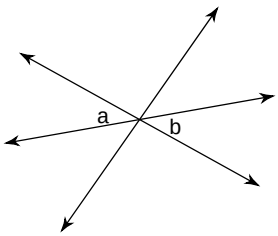


Name the relationship: complementary, linear pair, vertical, or adjacent.

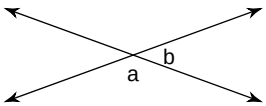
23)



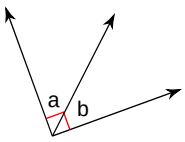
24)



25)

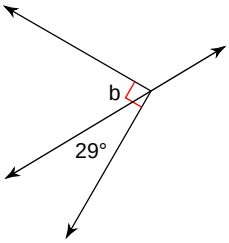


26)

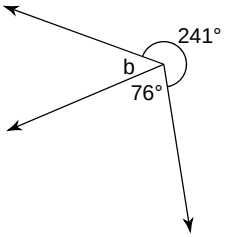


Find the measure of angle b.

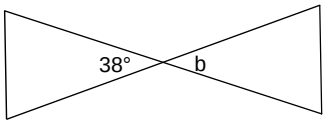
27)



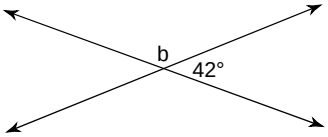
28)



29)

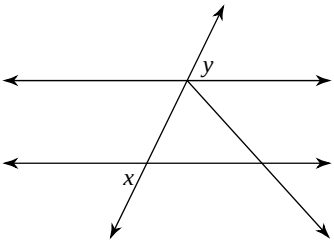


30)

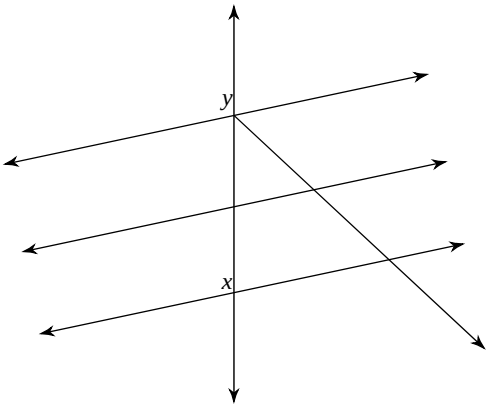


Identify each pair of angles as corresponding, alternate interior, alternate exterior, same-side interior, vertical, or adjacent.

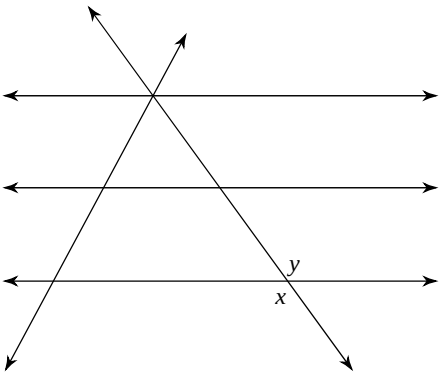
31)



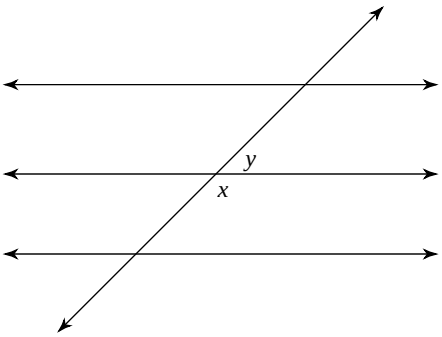
32)



33)



34)



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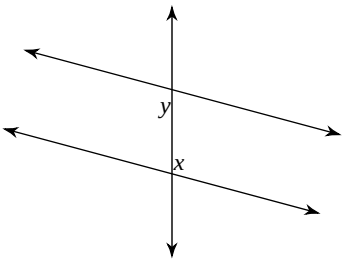
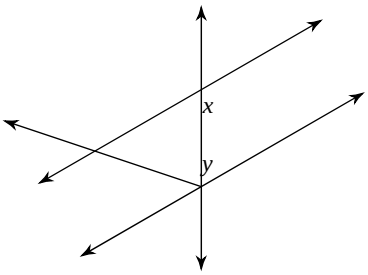
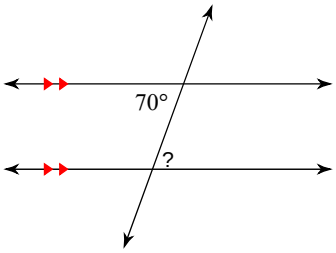


36)

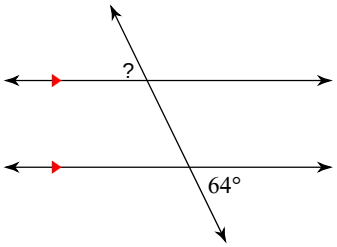


Find the measure of each angle indicated.

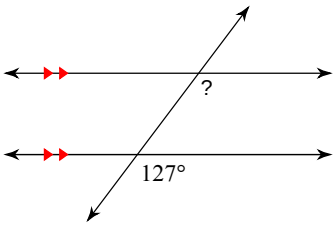
37)



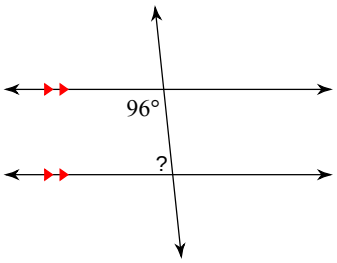
38)



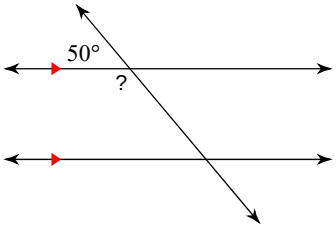
39)



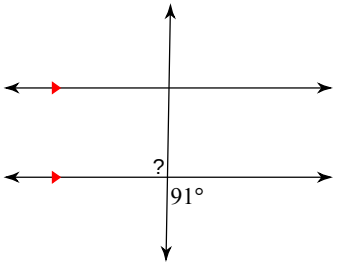
40)



41)



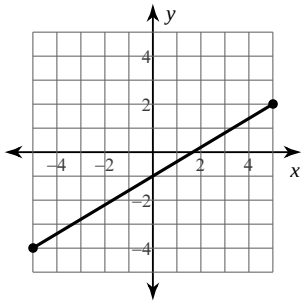
42)



Use the DISTANCE FORMULA to find the distance between each pair of points. Round your answer to the nearest tenth, if necessary.

43) $(1, 2),\ (5, -7)$

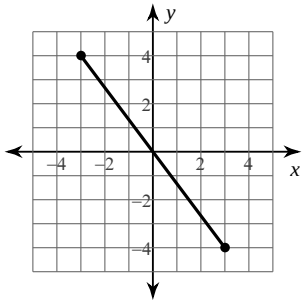
44)



Use the MIDPOINT FORUMULA to find the midpoint of the line segment with the given endpoints.

45) $(-1, 0),\ (-3, 7)$

46)



Answers to Sem2 - practice TEST 2 (Unit 6)

1) 19
2) 13
3) 9
4) 12
5) 12
6) 10
7) 11
8) 20
9) $\angle R, \angle 2, \angle QRS, \angle SRQ$
10) $\angle 5, \angle 6, \angle FVD$
11) right
12) obtuse
13) straight
14) acute
15) right
16) obtuse
17) acute
18) straight
19) 168°
20) 166°
21) 65°
22) 135°
23) adjacent
24) vertical
25) linear pair
26) complementary
27) 61°
28) 43°
29) 38°
30) 138°
31) alternate exterior
32) corresponding
33) vertical
34) adjacent
35) alternate interior
36) same-side interior
37) 70°
38) 64°
39) 127°
40) 84°
41) 130°
42) 91°
43) 9.8
44) 11.7
45) $(-2, 3.5)$
46) $(0, 0)$