Name: _____ Date: _____ Row: _____ Period: _____ Assignment #: _____

CHAPTER 1 REVIEW WORKSHEET FOR QUARTER EXAM

Put answers and work in boxes to the right of the problems. Be sure to show work when necessary.

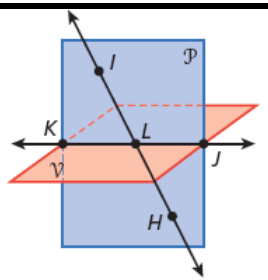
Section 1.1: Complete #1-4, 7, 8

Name each of the following.

1. two points
2. two lines
3. two planes
4. a point on $\overleftrightarrow{IH}$

Draw and label each of the following.

7. a ray with endpoint A that passes through B
8. a line $\overleftrightarrow{PQ}$ that intersects plane $\mathcal{D}$



1) | 2) | 3) | 4)

7)

8)

Section 1.2: Complete #9-13

Find each length.

9. MN
10. MO

11. Segments that have the same length are ___?___ .
12. Construct a segment congruent to AB. Then construct the midpoint M.

13. M is the midpoint of $\overline{PR}$, $PM = 2x + 5$, and $MR = 4x - 7$. Solve for x and find PR.

9) | 10) | 11)

12)

13)

Section 1.3: Complete #14, 16, 18, 19

Z is in the interior of $\angle WXY$. Find each of the following.

14. $m\angle WXY$ if $\angle WXZ = 23°$ and $m\angle ZXY = 51°$

$\overrightarrow{EH}$ bisects $\angle DEF$. Find each of the following.

16. $m\angle DEH$ if $m\angle DEH = (10z - 2)°$ and $m\angle HEF = (6z + 10)°$
18. A ___?___ is formed by two opposite rays and measures ___?___ °.
19. There are ___?___ ° in a circle.

14)

16)

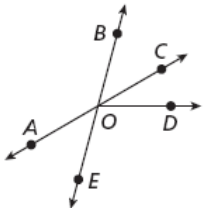
18)

19)

Section 1.4: Complete #21, 22, 24-26

Tell whether the angles are only adjacent, adjacent and form a linear pair, or not adjacent.

20. $\angle AOB$ and $\angle DOE$
21. $\angle AOE$ and $\angle DOE$
22. $\angle COE$ and $\angle EOA$
23. $\angle AOB$ and $\angle BOD$
24. Name a pair of vertical angles.



Given $m\angle A = 41.7°$ and $m\angle B = (24.2 - x)°$, find the measure of each of the following.

25. complement of $\angle A$
26. supplement of $\angle A$
27. supplement of $\angle B$

21) | 22) | 24)

25)

26)

Section 1.6: Complete #34, 35, 37, 38

34. The formula to find the midpoint M of $\overline{AB}$ with endpoints $A(x_1, y_1)$ and $B(x_2, y_2)$ is ___?___ .

Find the coordinates of the midpoint of each segment.

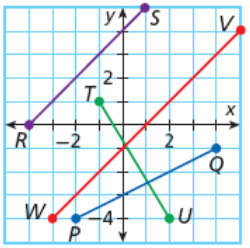
35. $\overline{WX}$ with endpoints $W(-4, 1)$ and $X(2, 9)$

37. M is the midpoint of $\overline{RS}$. R has coordinates $(-7, -3)$, and M has coordinates $(1, 1)$. Find the coordinates of S.

Find the length of the given segments and determine if they are congruent.

38. $\overline{VW}$ and $\overline{PQ}$

39. $\overline{RS}$ and $\overline{TU}$



34)

35)

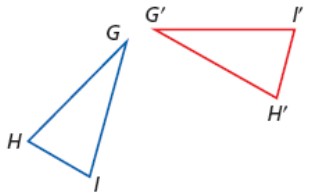
37)

38)

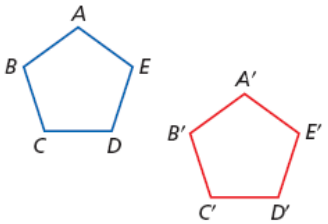
Section 1.7: Complete #40-42, 44

Identify each transformation. Then use arrow notation to describe the transformation.

40.



41.



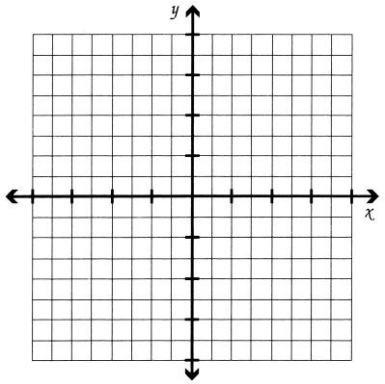
42. A figure has vertices at $(1, 1)$, $(2, 4)$, and $(5, 3)$. After a transformation, the image of the figure has vertices at $(-3, -2)$, $(-2, 1)$, and $(1, 0)$. Draw the preimage and image. Then describe the transformation.

44. The coordinates of the vertices of quadrilateral $DEFG$ are $(3, 0)$, $(2, 3)$, $(-3, 2)$, and $(-2, -1)$. Find the coordinates for the image of rectangle $DEFG$ after the translation $(x, y) \rightarrow (x, -y)$. Draw the preimage and image. Then describe the transformation.

40)

41)

42)



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