Name: _____ Date: _____

Cumulative Review

For use after Chapters 1–4

$\overrightarrow{XY}$ is the angle bisector of $\angle WXZ$. Find the two angle measures not given in the diagram. (1.5)

1.

2.

$\angle A$ and $\angle B$ are supplementary. Find $m\angle A$ and $m\angle B$. (1.6)

3. $m\angle A = 5x + 2$
$m\angle B = 9x + 10$

4. $m\angle A = 20x + 4$
$m\angle B = 7x - 13$

Using p and q below, write the symbolic statement in words. (2.3)

p: Two angle measures have a sum of $180°$.

q: The two angles are supplementary.

5. $q \rightarrow p$

6. $\sim p \rightarrow \sim q$

Write a two–column proof. (2.6)

7. Given: $\angle ABD$ and $\angle CBD$ are right angles.
$\angle 1 \cong \angle 2$

Prove: $\angle 3 \cong \angle 4$
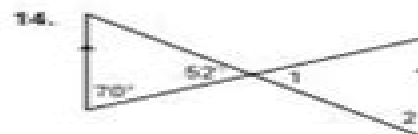

Find the value of x. (3.3)

8.

9.

Find the slope of $\overleftrightarrow{AB}$ and $\overleftrightarrow{CD}$. Then determine if the lines are parallel or perpendicular. (3.6)

10. $A(-3, 4)$, $B(5, 0)$
$C(6, 2)$, $D(8, 6)$

11. $A(7, 1)$, $B(6, -3)$
$C(5, 3)$, $D(-3, 5)$

12. $A(3, 3)$, $B(6, 4)$
$C(-5, 7)$, $D(1, 9)$

Find the measure of the numbered angles. (4.1)

13.

14.

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RJ Alexander

Holt Algebra 1 Chapter 4 Cumulative Test Answers:

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