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.
$$m \angle A = 5x + 2$$

 $m \angle B = 9x + 10$

Using ρ 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.

6.
$$-p \rightarrow -q$$

Write a two-column proof. (2.6)

 Given: ∠ABD and ∠CBD are right angles. ∠1 = ∠2

Prove: $\angle 3 = \angle 4$



Find the value of x. (3.3)

80.



9.



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

Find the measure of the numbered angles. (4.1)

13.



14.



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