

## Lesson Chapter 2 Midterm Review

Homework Answers

Pg 105 - #1-38

1) reflexive	18) Lucy will become a better player.
2) hypothesis	19) Lines $l$ & $m$ intersect to form right angles
3) adjacent	20) The sum of the measures of $\angle 1$ & $\angle 2$ is 180.
4) transitive	21) If Kate studies, then she will graduate.
5) complementary	22) If a, then c.
6) biconditional	23) If the weather is wet, Nathan can stop at the ice cream shop.
7) vertical angles	24) a) Segment Add Post b) Subst. POE c) Simplify d) Subtr. POE e) Div POE
8) converse	25) 8
9) symmetric	26) $BY$
10) supplementary	27) $m\angle Y$
11) a) If you are younger than 20, you are a teenager. b) conditional: true converse: false	28) $RS = XY$
12) a) If an angle has measure greater than 90 and less than 180, it is obtuse. b) conditional: true converse: true c) An angle is obtuse <i>iff</i> it has measure greater than 90 and less than 180.	29) $y$
13) a) If a figure has four sides, it is a square. b) conditional: true converse: false	30) 10
14) If something is a flower, it is beautiful.	31) $p - 2q$
15) Defn. not reversible. Counter-example: magazine (you read it but it isn't a book)	32) $\overline{NM}$
16) A phrase is an oxymoron <i>iff</i> it contains contradictory terms.	33) 18
17) If two angles are complementary, the sum of their measures is 90. If the sum of the measures of two angles is 90, then the angles are complementary.	34) 31
	35) 20

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36)  $m\angle KJD + m\angle DJH = m\angle KJH$  by  $\angle$  Add Post  
 $m\angle KJD = m\angle DJH$  by the markings  
 $\overline{JD}$  bisects  $\angle KJH$  by defn  $\angle$  bisector

37)  $AB = CD$  by the markings;  
 $AC = BD$  by Add. POE and Seg. Add. Post

38)  $\angle 1 \cong \angle 4$  by the markings  
 $\angle 1 \cong \angle 2$  &  $\angle 3 \cong \angle 4$  because vert  $\angle$ 's are  $\cong$   
 $\angle 2 \cong \angle 3$  by Trans POC (or subst POC)