Name Key Date _____ Period _____

CHAPTER 3 GROUP REVIEW

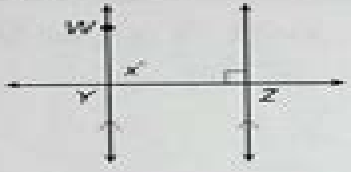
1. Lines that are in different planes are SKEW.

2. The POINT-SLOPE form of a line is used to write an equation of a line with a given slope that passes through a given point.

3. Identify each of the following:
   a) a pair of skew segments — for example: $\overline{AD}$ & $\overline{BC}$
   b) a pair of perpendicular segments — for example: $\overline{DE} \perp \overline{EF}$

4. Identify the transversal and classify each angle pair.
   a) angles 5 and 2 — TRANSVERSAL: ℓ; ALT. INT. $\angle$S
   b) angles 2 and 4 — TRANSVERSAL: ℓ; SAME-SIDE INT. $\angle$S

5. Find each angle measure. Name the theorem or postulate you used to set up an equation.
   a) $m\angle WYZ$



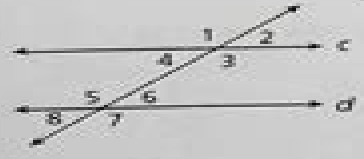
90° SAME-SIDE INT. $\angle$S THM.

   b) $m\angle DEF$

$33x+35 = 26x+49$ → ALT. EXT. $\angle$S THM.
$7x = 14$
$x = 2$
$26(2)+49$
$52+49$
$101°$

$180-101$ → LINEAR PAIR
$m\angle DEF = 79°$

6. Use the given information and theorems or postulates you have learned to show that c ∥ d.
   a) $m\angle 4 = 58°, m\angle 6 = 58°$



$m\angle 4 = m\angle 6$
c ∥ d CONV. ALT. INT. $\angle$S THM.

   b) $m\angle 6 = (12x + 6)°, m\angle 3 = (21x + 9)°, x = 5$

$m\angle 6 = 12(5)+6$
$= 60+6$
$= 66°$

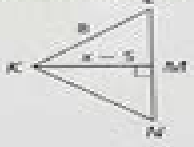
$m\angle 3 = 21(5)+9$
$= 105+9$
$= 114°$

$66° + 114° = 180°$
$m\angle 6 + m\angle 3 = 180°$
c ∥ d CONV. SAME SIDE INT. $\angle$S THM.

7. Name the shortest segment from point K to $\overline{LN}$. Write an inequality and solve for x.

SHORTEST $\overline{KM}$

$x-5 < 8$
$x < 13$



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