

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: $\angle$
ALT. INT. $\angle$ s

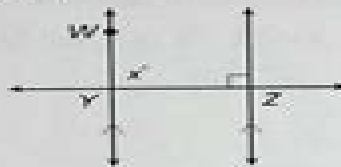
b) angles 2 and 4

TRANSVERSAL: $\angle$
SAME-SIDE INT. $\angle$ s



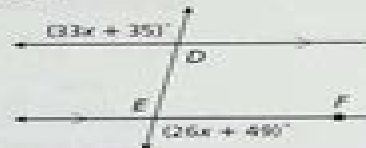
5. Find each angle measure. Name the theorem or postulate you used to set up an equation.

a) $m\angle WYZ$



90° SAME-SIDE INT. $\angle$ s THM.

b) $m\angle DEF$



$$33x + 35 = 26x + 49 \rightarrow \text{ALT. EXT. } \angle \text{S THM.}$$

$$7x = 14$$

$$x = 2$$

$$26(2) + 49$$

$$52 + 49$$

$$101^\circ$$

$$180 - 101 \rightarrow \text{LINEAR PAIR}$$

$$m\angle DEF = 79^\circ$$

6. Use the given information and theorems or postulates you have learned to show that $c \parallel d$.

a) $m\angle 4 = 58^\circ$, $m\angle 6 = 58^\circ$

$m\angle 4 = m\angle 6$
 $c \parallel d$ CONV. ALT.
INT. $\angle$ s THM.

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

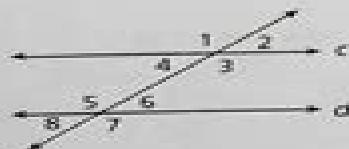
$$m\angle 6 = 12(5) + 6 = 60 + 6 = 66^\circ$$

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

$$66^\circ + 114^\circ = 180^\circ$$

$$m\angle 6 + m\angle 3 = 180^\circ$$

$c \parallel d$ 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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Siddappa N.Byrareddy



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