2.4 **Vertical Angles**

Recognize and find the measures of angles formed by intersecting lines.

Two angles are <u>vertical angles</u> if they are not adjacent and their sides are cl and c2

formed by two intersecting lines.

23 and 24

Two adjacent angles are a linear pair if their noncommon sides are on the

same line.

11 and 22

23 and 24

41 and 24

12 and 13

Example 1: pg. 75

1. linear pair

neither

3. vertical angles

Linear Pair Postulate: If two angles form a linear pair, then they are supplementary.

Vertical Angles Theorem: Vertical angles are congruent.

Example 2: Checkpoint in the middle of pg. 77

2.
$$\angle 2 = 124^{\circ}$$
 $|24^{\circ} + \angle 1 = 180$
 $|-124^{\circ} + \angle 1 = 56^{\circ} = 23$

Example 3: Checkpoint on the bottom of pg. 77

$$2r+3 = 89$$

$$2r = 86$$

$$r = 43$$

5.
$$3x = 2x + 16$$

 $-2x - 2x$

6.
$$20t+5+15t=180$$

$$35t+5=180$$

$$-5$$

$$35t=175$$

$$35$$

$$t=5$$

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Name
2.4
Pg.78-81 # 1-27
28-50 even
51-56
59
Notes 2.5
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