Geometry Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2.5 Review Date: \_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_

Directions: Use the diagram at the right to answer questions 1-3.

1

2

3

4

1) If , then = \_\_\_\_\_.

2) If , then = \_\_\_\_\_.

3) If , then = \_\_\_\_\_.

Directions: Find the value of the variable(s).

75°

(2x – 5)°

4) 5)

110°

(2x + 40)°

Find x. Find x.

x = \_\_\_\_\_ x = \_\_\_\_\_

6) 7)

(11x + 16)°

(8x + 12)°

(5y - 1)°

(3y + 13)°

(3x + 17)°

(3y – 20)°

(5x -47)°

(2y + 9)°

Find x and y. Find x and y.

x = \_\_\_\_\_ x = \_\_\_\_\_

y = \_\_\_\_\_ y = \_\_\_\_\_

A

B

C

D

E

2x + 14

5x - 7

8) 9)

E

D

4x - 10

6x - 22

C

B

A

Given: bisects Given:  bisects ∠ABD.

Find: m = \_\_\_\_\_\_ Find: m∠DBC = \_\_\_\_\_\_

10) An angle is 62°larger than its supplement. Find the angle.

11) Two angles are supplementary. One angle is 40° less than the other. Find the larger angle.

12) An angle is 12° less than one half of its supplement. Find the supplement.