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

4.5- Homework Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_

**Using what you know about isosceles, equilateral, and right triangles, find the measure of the indicated angles.**

1

2

3

126°

1. 2. 3.

106°

1

2

3

52°

1

2

3

m∠1 = \_\_\_\_\_ m∠1 = \_\_\_\_\_ m∠1 = \_\_\_\_\_

m∠2 = \_\_\_\_\_ m∠2 = \_\_\_\_\_ m∠2 = \_\_\_\_\_

m∠3 = \_\_\_\_\_ m∠3 = \_\_\_\_\_ m∠3 = \_\_\_\_\_

**Solve for each variable.**

x°

y°

4. 5. 6.

x°

y°

y°

x°

72°

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

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

7. 8. 9.

54°

x°

40°

(4x + 10)°

(3x + 8)°

(2x + 20)°

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

10. 11. 12.

3y°

(x – 2)°

(4x + 10)°

3x°

(y + 7)°

(3x - 11)°

(2x + 11)°

2y°

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

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

13. 14. 15.

(4x – 10)°

(2x + 12)°

4y°

(7y – 3)°

(3y + 13)°

(2x + 3)°

3y°

2x°

50°

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

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



42°

x°

16. 17. 18.

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



19. 20.