Trig Chapter 8 Practice Test 1

Name _____

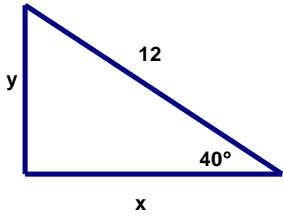**Figure 1**

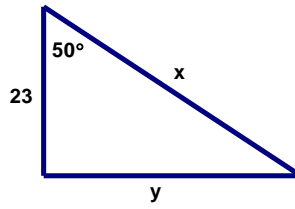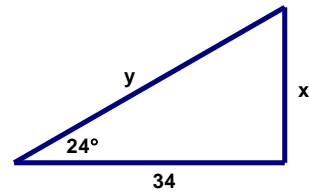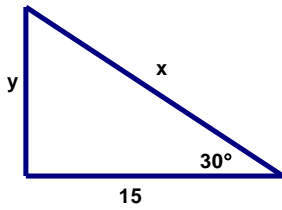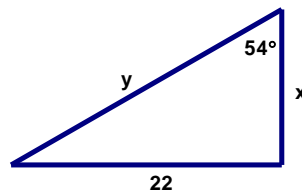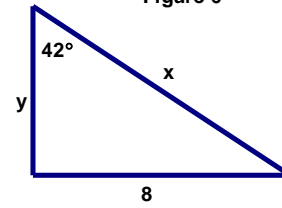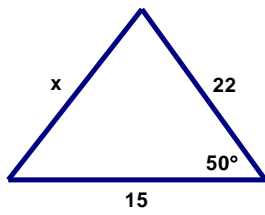12
y
40°
x

Figure 2

50°
x
23
y

Figure 3

y
x
24°
34

Figure 4

y
x
30°
15

Figure 5

54°
y
x
22

Figure 6

42°
x
y
8

Figure 7

x
22
50°
15

Figure 8

x
16
84°
22

Figure 9

62°
8
42°
x

Figure 10

14
22
θ
25

Figure 11

y
80°
22
70°
x

Figure 12

25
x
50°
22

Figure 13

10
θ
20
16

Figure 14

10
80°
8
α
θ
11

Figure 15

18
θ
22
α
40°
28
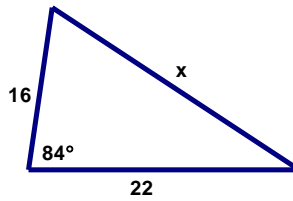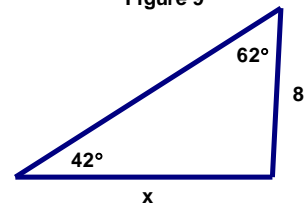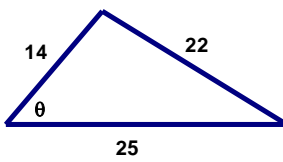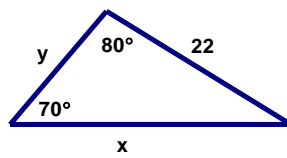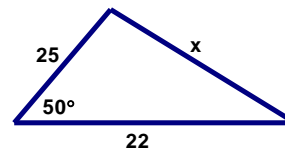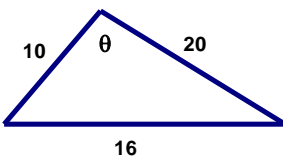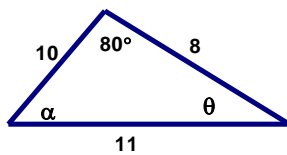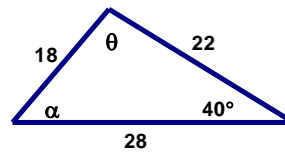
Figures 16 – 18 are right triangles.

Figure 16

θ
18 cm

14 cm

Figure 17

11 cm
θ
18 cm

Figure 18

28 cm
θ
22 cm
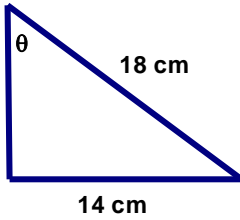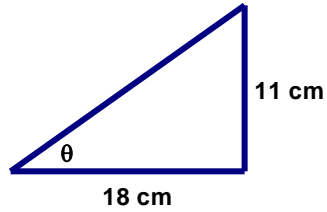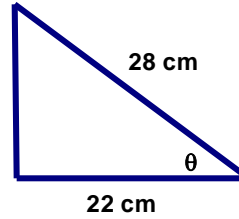
Find the area of figures 19- 24.

Figure 19

14 cm 12 cm
52°

Figure 20

12 cm
42°
12 cm

Figure 21

21 cm 16 cm
22 cm

Figure 22

18 cm 22 cm
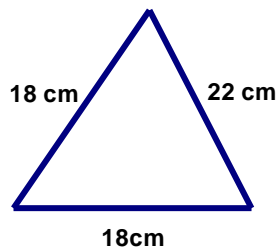18cm

Figure 23

12 cm
57°
20 cm

Figure 24

20 cm 22 cm
16 cm
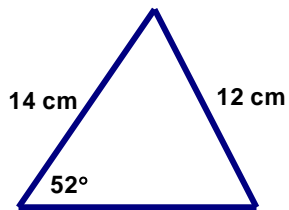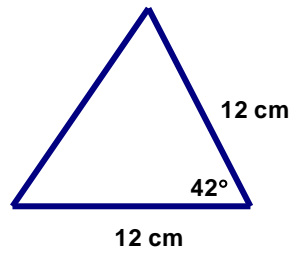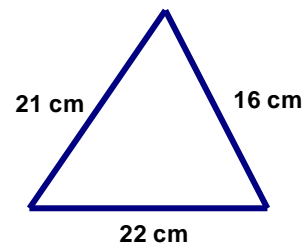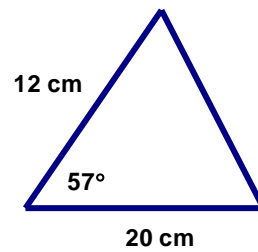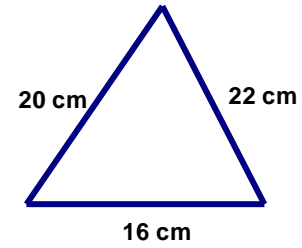
Answer Key to Figures for Chapter 8 Practice Test 1

1. In figure 1,   x = _____   y = _____

2. In figure 2,   x = _____   y = _____

3. In figure 3,   x = _____   y = _____

4. In figure 4,   x = _____   y = _____

5. In figure 5,   x = _____   y = _____

6. In figure 6,   x = _____   y = _____

7. In figure 7,   x = _____

8. In figure 8,   x = _____

9. In figure 9,   x = _____

10. In figure 10, θ = _____

11. In figure 11,   x = _____   y = _____

12. In figure 12,   x = _____

13. In figure 13, θ = _____

14. In figure 14, θ = _____ α = _____

15. In figure 15, θ = _____ α = _____

16. In figure 16, θ = _____

17. In figure 17, θ = _____

18. In figure 18, θ = _____

Find the area of figures 19 – 24 below.

19.   _____   20.   _____   21.   _____

22.   _____   23.   _____   24.   _____