Inverse Trigonometric Ratios

Find each angle measure to the nearest degree.

1) sin B = 0.4848

2) sin A = 0.5150
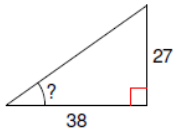
3) cos A = 0.7431

4) cos W = 0.6157

5) cos A = 0.5878

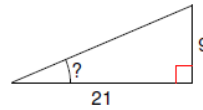6) tan W = 19.0811

7) cos A = 0.4226

8) tan W = 0.5317

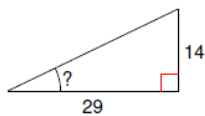**Find the measure of the indicated angle to the nearest degree.**

9)

10)

11)

12)
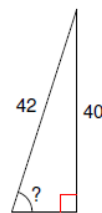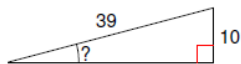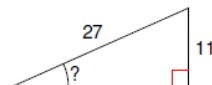

13)

14)

Inverse Trigonometric Ratios

Find each angle measure to the nearest degree.

1) sin B = 0.4848

   29°

2) sin A = 0.5150

   31°

3) cos A = 0.7431

   42°

4) cos W = 0.6157

   52°

5) cos A = 0.5878

   54°

6) tan W = 19.0811

   87°

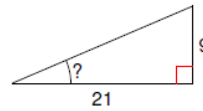7) cos A = 0.4226

   65°

8) tan W = 0.5317

   28°

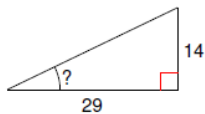**Find the measure of the indicated angle to the nearest degree.**

9)
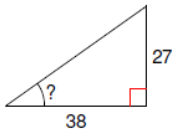
   35°

10)

   23°

11)

   26°

12)
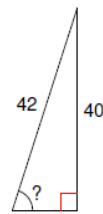
   72°

13)

   15°

14)

   24°

15)

16)

17)

18)

19)

20)

21)

22)

23)

24)
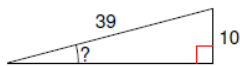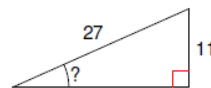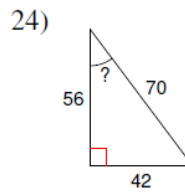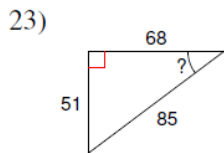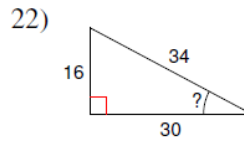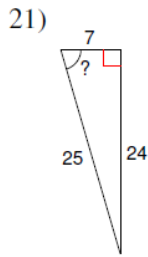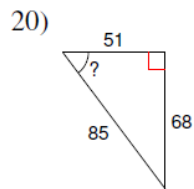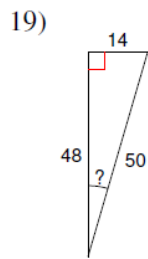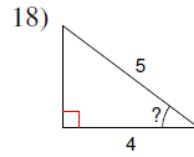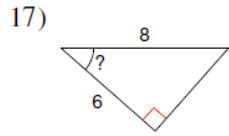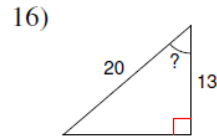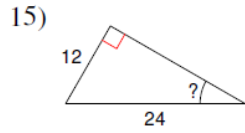
Critical thinking questions:

25) Find an angle x where $\sin x = \cos x$.

26) Draw and label all three sides of a right triangle that has a $40°$ angle and a hypotenuse of 10 cm.

15)

12
24
?

30°

16)

20
13
?

49°

17)

8
6
?

41°

18)

5
4
?

37°

19)

14
48
50
?

16°

20)

51
85
68
?

53°

21)

7
25
24
?

74°

22)

16
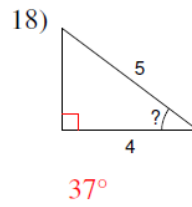34
30
?

28°

23)

68
51
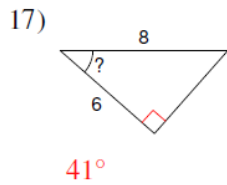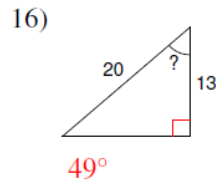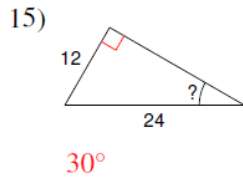85
?

37°

24)

56
70
42
?

37°
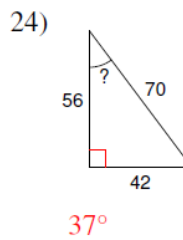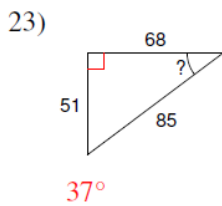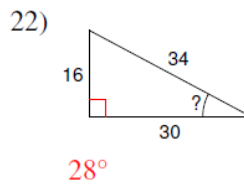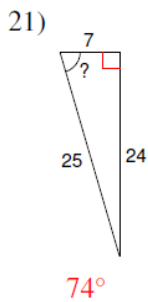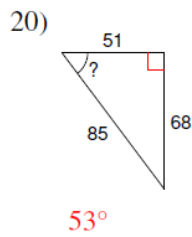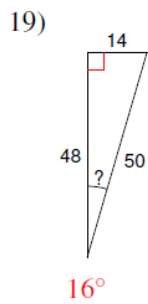
Critical thinking questions:

25) Find an angle x where $\sin x = \cos x$.

45°

26) Draw and label all three sides of a right triangle that has a 40° angle and a hypotenuse of 10 cm.

Sides are: 10 cm, 6.4 cm, and 7.7 cm.