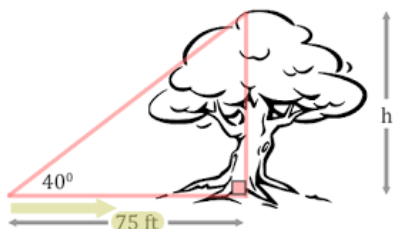


NAME : _____

CLASS : _____

DATE : _____

1.



What is the height of the tree? Round the the nearest foot.

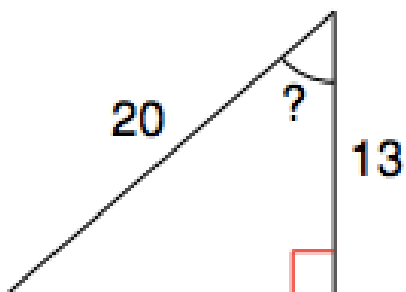
a) 38 ft

b) 63 ft

c) 20 ft

d) 98 ft

2.



Find the measure of the missing angle. Round to the nearest degree.

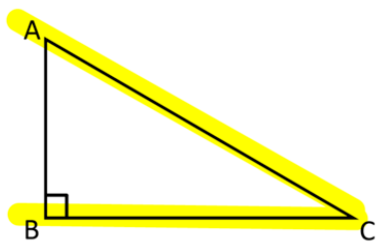
a) 49°

b) 50°

c) 41°

d) 33°

3.



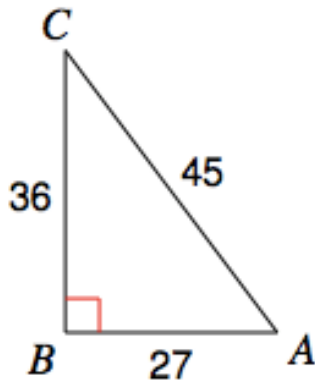
From $\angle C$, what side is AB?

a) Adjacent

b) Hypotenuse

c) Opposite

4.



Find the ratio for $\sin A$. (Reduce the fraction)

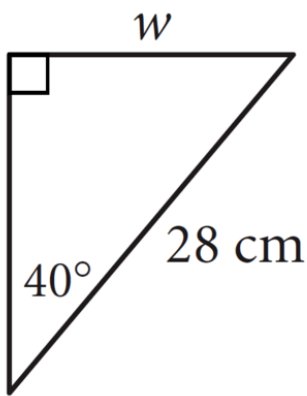
a) $36/27$

b) $4/5$

c) $36/45$

d) $3/5$

5.



What is the correct ratio?

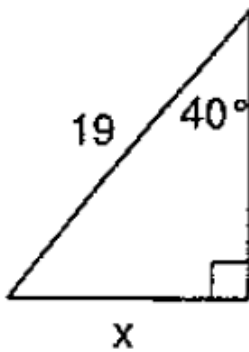
a) $\sin 40 = w/28$

b) $\cos 40 = w/28$

c) $\tan 40 = w/28$

d) $\sin 40 = 28/w$

6.



What equation can be used to solve for x ?

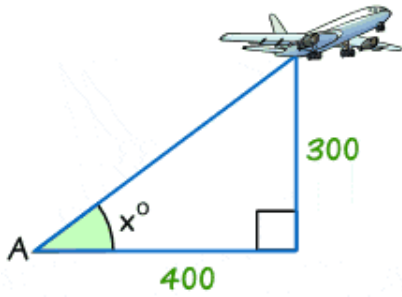
a) $\sin(40^\circ) = x/40$

b) $\sin(40^\circ) = x/19$

c) $\cos(40^\circ) = x/19$

d) $\tan(40^\circ) = 19/x$

7.



Solve for the missing angle. Round the nearest degree.

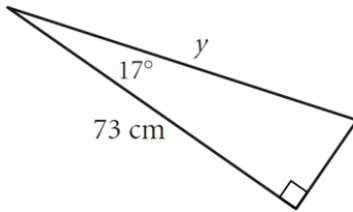
a) 50

b) 36

c) 37

d) 35

8.



Find the length of side y.

a) 22.32 cm

b) 36.5 cm

c) 76.34 cm

d) 87.76 cm

9. What is the reference angle for 315° ?

a) 30

b) 45

c) 60

d) 90

10. Which of the following is coterminal to 30° ?

a) -30

b) 330

c) 390

d) 60

11. What is the reference angle for 210° ?

a) 30

b) 45

c) 60

d) 90

12. What is the reference angle of 240° ?

a) 30

b) 45

c) 60

d) 90

13. Which of the following angles is coterminal with 342° ?

a) 701°

b) -15°

c) -18°

d) 703°

°

°

14.

$$\sin 24^\circ = \frac{12.1}{x}$$

Solve for x.

a) 24.20

b) 4.92

c) 290.4

d) 29.75

15. Convert π radians to degrees.

a) 90°

b) 180°

c) 360°

d) 60°

16. Convert 150° to radians

a) $5\pi/6$

b) $3\pi/4$

c) $7\pi/6$

d) $2\pi/3$

17. Convert $\pi/4$ radians to degrees

a) 90°

b) 45°

c) 60°

d) 30°

18. What is $7\pi/4$ radians in degrees?

a) 300

b) 135

c) 315

d) 45

19. What is $4\pi/3$ radians in degrees?

a) 120

b) 240

c) 210

d) 270

20. What is 270 degrees in radians?

a) $\pi/4$

b) $3\pi/2$

c) $3\pi/4$

d) $\pi/2$

21. What is 90 degrees in radians?

a) $\pi/4$

b) $\pi/2$

c) $\pi/6$

d) $3\pi/2$

22. Which of the following is a negative coterminal angle of 165 degrees?

a) 195

b) 525

c) -525

d) -195

23. Find a coterminal angle to -180 degrees.

a) 180

b) 90

c) 270

d) 360

24. Draw a reference triangle to evaluate $\sin(225^\circ)$

a) $-\sqrt{2}/2$

b) $\sqrt{2}/2$

c) $1/2$

d) $\sqrt{3}/2$

25. Draw a reference triangle to evaluate $\sec(300^\circ)$

a) $1/2$

b) -2

c) 2

d) $-1/2$

26. Evaluate $\sin(90^\circ)=$

a) $1/2$

b) 0

c) -1

d) 1

27. Draw a reference triangle to evaluate cosine of 135°

a) 0

b) $1/2$

c) $\sqrt{2}/2$

d) $-\sqrt{2}/2$

Answer Key

1. b
2. a
3. c
4. b
5. a
6. b
7. c

8. c
9. b
10. c
11. a
12. c
13. c
14. d

15. b
16. a
17. b
18. c
19. b
20. b
21. b

22. d
23. a
24. a
25. c
26. d
27. d