

## Exact Values Review

Date \_\_\_\_\_ Period \_\_\_\_\_

Use the given point on the terminal side of angle  $\theta$  to find the value of the trigonometric function indicated.

1)  $\sec \theta; (2, -\sqrt{5})$

2)  $\sec \theta; (8, -\sqrt{17})$

3)  $\csc \theta; (2\sqrt{3}, 2)$

4)  $\csc \theta; (-7, -\sqrt{15})$

5)  $\csc \theta; (10, -20)$

6)  $\tan \theta; (7, \sqrt{15})$

7)  $\cot \theta; (8, 11)$

8)  $\cot \theta; (-12, -16)$

9)  $\tan \theta; (6, 18)$

10)  $\csc \theta; (-8, -19)$

**Find the exact value of each trigonometric function. Using the UNIT CIRCLE METHOD. Place the # on the completed unit circle and list your point on this page.**

11)  $\tan 945^\circ$

12)  $\cot 0^\circ$

13)  $\sec \frac{5\pi}{3}$

14)  $\tan 90^\circ$

15)  $\csc 450^\circ$

16)  $\sin -\frac{5\pi}{6}$

17)  $\csc 510^\circ$

18)  $\sec -570^\circ$

19)  $\cot 750^\circ$

20)  $\csc \frac{19\pi}{4}$

21)  $\sin -420^\circ$

22)  $\sin -5\pi$

23)  $\csc -\frac{23\pi}{6}$

24)  $\tan 750^\circ$

25)  $\sin \frac{23\pi}{6}$

26)  $\csc -\frac{5\pi}{6}$

27)  $\csc -\frac{5\pi}{2}$

28)  $\tan \frac{3\pi}{2}$

29)  $\sec \pi$

30)  $\cot \frac{13\pi}{4}$

Find the exact value of each trigonometric function, using the TRIANGLE METHOD!

31)  $\tan 540^\circ$

32)  $\sin \frac{14\pi}{3}$

33)  $\tan \frac{16\pi}{3}$

34)  $\sec 330^\circ$

35)  $\tan 3\pi$

36)  $\tan -\frac{11\pi}{4}$

37)  $\cot -\frac{17\pi}{4}$

38)  $\sec -1020^\circ$

39)  $\cot \frac{7\pi}{6}$

40)  $\tan 60^\circ$

## Exact Values Review

Date \_\_\_\_\_ Period \_\_\_\_\_

Use the given point on the terminal side of angle  $\theta$  to find the value of the trigonometric function indicated.

1)  $\sec \theta; (2, -\sqrt{5})$

$$\frac{3}{2}$$

2)  $\sec \theta; (8, -\sqrt{17})$

$$\frac{9}{8}$$

3)  $\csc \theta; (2\sqrt{3}, 2)$

$$2$$

4)  $\csc \theta; (-7, -\sqrt{15})$

$$-\frac{8\sqrt{15}}{15}$$

5)  $\csc \theta; (10, -20)$

$$-\frac{\sqrt{5}}{2}$$

6)  $\tan \theta; (7, \sqrt{15})$

$$\frac{\sqrt{15}}{7}$$

7)  $\cot \theta; (8, 11)$

$$\frac{8}{11}$$

8)  $\cot \theta; (-12, -16)$

$$\frac{3}{4}$$

9)  $\tan \theta; (6, 18)$

$$3$$

10)  $\csc \theta; (-8, -19)$

$$-\frac{5\sqrt{17}}{19}$$

Find the exact value of each trigonometric function. Using the UNIT CIRCLE METHOD. Place the # on the completed unit circle and list your point on this page.

11)  $\tan 945^\circ$  1

12)  $\cot 0^\circ$   
Undefined

13)  $\sec \frac{5\pi}{3}$  2

14)  $\tan 90^\circ$   
Undefined

15)  $\csc 450^\circ$  1

16)  $\sin -\frac{5\pi}{6}$   
 $-\frac{1}{2}$

17)  $\csc 510^\circ$  2

18)  $\sec -570^\circ$   
 $-\frac{2\sqrt{3}}{3}$

19)  $\cot 750^\circ$   $\sqrt{3}$

20)  $\csc \frac{19\pi}{4}$   
 $\sqrt{2}$

21)  $\sin -420^\circ$   
 $-\frac{\sqrt{3}}{2}$

22)  $\sin -5\pi$   
0

23)  $\csc -\frac{23\pi}{6}$  2

24)  $\tan 750^\circ$   
 $\frac{\sqrt{3}}{3}$

25)  $\sin \frac{23\pi}{6}$   $-\frac{1}{2}$

26)  $\csc -\frac{5\pi}{6}$   
-2

27)  $\csc -\frac{5\pi}{2}$  -1

28)  $\tan \frac{3\pi}{2}$   
Undefined

29)  $\sec \pi$  -1

30)  $\cot \frac{13\pi}{4}$   
1

Find the exact value of each trigonometric function, using the TRIANGLE METHOD!

31)  $\tan 540^\circ$   
 $0$

32)  $\sin \frac{14\pi}{3}$   
 $\frac{\sqrt{3}}{2}$

33)  $\tan \frac{16\pi}{3}$   
 $\sqrt{3}$

34)  $\sec 330^\circ$   
 $\frac{2\sqrt{3}}{3}$

35)  $\tan 3\pi$   
 $0$

36)  $\tan -\frac{11\pi}{4}$   
 $1$

37)  $\cot -\frac{17\pi}{4}$   
 $-1$

38)  $\sec -1020^\circ$   
 $2$

39)  $\cot \frac{7\pi}{6}$   
 $\sqrt{3}$

40)  $\tan 60^\circ$   
 $\sqrt{3}$