

## Evaluating Trig Exactly - extra practice

Date \_\_\_\_\_

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**Find the exact value of each trigonometric function.**

1)  $\tan -\frac{5\pi}{4}$

2)  $\tan \frac{7\pi}{6}$

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

4)  $\tan -\frac{\pi}{6}$

5)  $\cot -\frac{7\pi}{6}$

6)  $\cos -\frac{\pi}{4}$

7)  $\cos \frac{\pi}{3}$

8)  $\cos 675^\circ$

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

10)  $\sin 990^\circ$

11)  $\sec -1050^\circ$

12)  $\cos \frac{13\pi}{4}$

13)  $\cos -180^\circ$

14)  $\sec \frac{16\pi}{3}$

15)  $\sec -\frac{9\pi}{4}$

16)  $\csc -300^\circ$

17)  $\tan 120^\circ$

18)  $\csc -\frac{4\pi}{3}$

19)  $\tan 870^\circ$

20)  $\cot -495^\circ$

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

21)  $\cot \theta; (-2, -13)$

22)  $\tan \theta; (-11, -2)$

23)  $\sin \theta; (-6, 4)$

24)  $\cos \theta; (-2\sqrt{3}, -2)$

25)  $\sec \theta; (-2\sqrt{3}, -2)$

26)  $\cot \theta; (-7, \sqrt{15})$

27)  $\sin \theta; (4, -4)$

28)  $\sin \theta; (-\sqrt{7}, 3)$

29)  $\csc \theta; (2, -2)$

30)  $\tan \theta; (3, 12)$

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**Find the exact value of each trigonometric function.**

1)  $\sin -210^\circ$

2)  $\csc 45^\circ$

3)  $\sec 180^\circ$

4)  $\cos 0^\circ$

5)  $\sin -30^\circ$

6)  $\cot -225^\circ$

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

8)  $\cos \frac{5\pi}{2}$

9)  $\sec \pi$

10)  $\tan 0$

11)  $\sin -\frac{14\pi}{3}$

12)  $\csc \frac{11\pi}{4}$

13)  $\tan 960^\circ$

14)  $\sec \frac{17\pi}{3}$

15)  $\cot \frac{35\pi}{6}$

16)  $\sec -\frac{\pi}{2}$

17)  $\sin -\frac{29\pi}{6}$

18)  $\cos -\frac{3\pi}{2}$

19)  $\tan -780^\circ$

20)  $\sin -\frac{7\pi}{4}$

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

21)  $\cot \theta; (17, -13)$

22)  $\tan \theta; (-7, -5)$

23)  $\csc \theta; (5, -\sqrt{11})$

24)  $\cos \theta; (9, -\sqrt{19})$

25)  $\sin \theta; (9, \sqrt{19})$

26)  $\tan \theta; (-6, 13)$

27)  $\sec \theta; (14, 7)$

28)  $\sec \theta; (-4, -12)$

29)  $\csc \theta; (2, \sqrt{5})$

30)  $\sin \theta; (-12, -8)$

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**Find the exact value of each trigonometric function.**

1)  $\csc -180^\circ$

2)  $\sec -315^\circ$

3)  $\cos 150^\circ$

4)  $\tan -135^\circ$

5)  $\cos 330^\circ$

6)  $\cos 315^\circ$

7)  $\csc -\frac{23\pi}{4}$

8)  $\sin \frac{11\pi}{3}$

9)  $\csc -\frac{11\pi}{2}$

10)  $\csc -\frac{13\pi}{6}$

11)  $\sin 0^\circ$

12)  $\cot \frac{\pi}{4}$

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

14)  $\cos \frac{9\pi}{2}$

15)  $\tan \frac{21\pi}{4}$

16)  $\cot \frac{10\pi}{3}$

17)  $\csc -\frac{19\pi}{4}$

18)  $\sin 570^\circ$

19)  $\sec \frac{2\pi}{3}$

20)  $\cot -\frac{21\pi}{4}$

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

21)  $\cot \theta; (2, 8)$

22)  $\sin \theta; (-5, -\sqrt{11})$

23)  $\cos \theta; (-2\sqrt{3}, 2)$

24)  $\csc \theta; (2, 3)$

25)  $\cos \theta; (8, -6)$

26)  $\cos \theta; (7, \sqrt{15})$

27)  $\cot \theta; (9, \sqrt{19})$

28)  $\sec \theta; (4, -3)$

29)  $\tan \theta; (-9, -\sqrt{19})$

30)  $\tan \theta; (-2, -\sqrt{5})$