

Find x over the interval of $[0^\circ, 360^\circ)$. If necessary, round to the hundredths.

1.) $\cos x = -\frac{1}{3}$

RA: 70.53°

Q2: $x = 109.47^\circ$
 Q3: $x = 250.53^\circ$

2.) $\sec x = \pm \frac{3}{2} = \cos x = \pm \frac{2}{3}$

RA: 48.19°

Q1: $x = 48.19^\circ$
 Q2: $x = 131.81^\circ$
 Q3: $x = 228.19^\circ$
 Q4: $x = 311.81^\circ$

3.) $\csc x = -6 = \sin x = -\frac{1}{6}$

Q3: $x = 189.59^\circ$
 Q4: $x = 350.41^\circ$

4.) $\tan x = -2$

RA: 63.43°

Q2: $x = 116.37^\circ$
 Q4: $x = 298.57^\circ$

5.) $\sin x = 3$

RA: error

no solution

6.) $\cot x = \frac{2}{7} = \tan x = \frac{7}{2}$

RA: 74.05°

Q1: $x = 74.05^\circ$
 Q2: $x = 254.05^\circ$

Find x over the interval of $[0, 2\pi)$. If necessary, round to the hundredths.

7.) $\tan x = 5$
RA: 1.37

Q1 $x = 1.37$
Q3 $x = 4.51$

8.) $\sec x = -\frac{15}{2} = \cos x = -\frac{2}{15}$
RA: 1.44

Q2: $x = 1.70$
Q3: $x = 4.58$

9.) $\sin x = \pm \frac{3}{5}$
RA: .64

Q1 $x = .64$
Q2 $x = 2.50$
Q3 $x = 3.78$
Q4 $x = 5.64$

10.) $\cot x = -\frac{18}{5}$ $\tan x = -\frac{5}{18}$
RA: .27

Q2 $x = 2.87$
Q4: $x = 6.01$

11.) $\csc x = \frac{7}{5} = \sin x = \frac{5}{7}$
RA: .795
= .80

Q1 $x = .80$
Q2 $x = 2.34$

12.) $\cos x = \frac{2}{5}$
RA: 1.16

Q1 $x = 1.16$
Q4 $x = 5.12$