

Trig Ratios of Any Angle

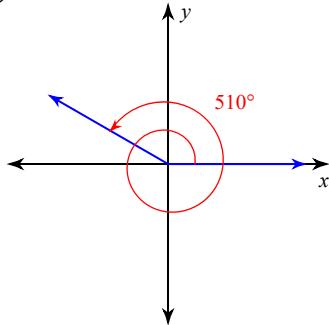
Use a calculator to find each. Round your answers to the nearest ten-thousandth.

1) $\sec -195^\circ$

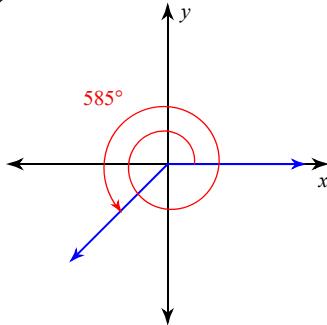
2) $\cos \frac{13\pi}{12}$

Find the exact value of each trigonometric function.

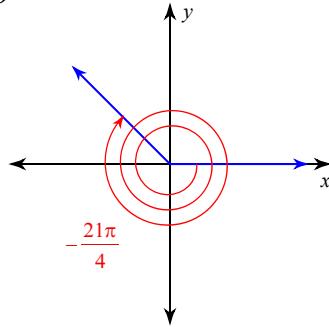
3) $\sin \theta$



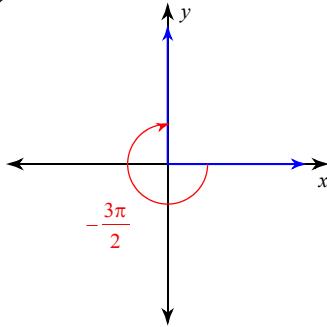
4) $\cos \theta$



5) $\tan \theta$



6) $\cos \theta$



7) $\cos \frac{17\pi}{4}$

8) $\cos -810^\circ$

9) $\cos \frac{9\pi}{4}$

10) $\sin \frac{15\pi}{4}$

11) $\sin -\frac{9\pi}{4}$

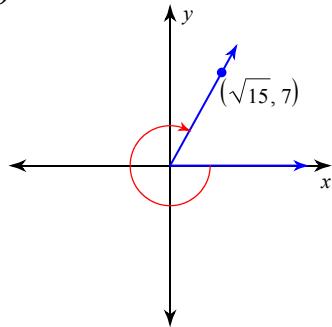
12) $\tan -945^\circ$

13) $\sin -720^\circ$

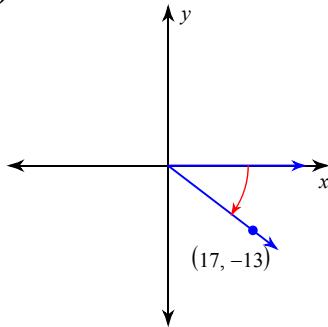
14) $\cos \frac{4\pi}{3}$

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

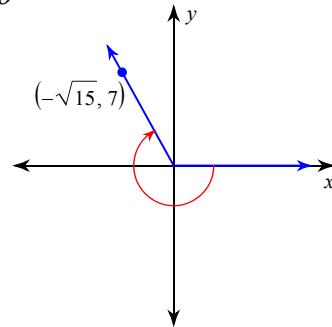
15) $\sin \theta$



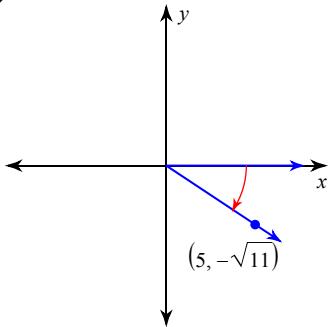
16) $\cot \theta$



17) $\sec \theta$



18) $\sin \theta$



Find the exact values of the five trigonometric ratios not given.

19) $\cot \theta = -\sqrt{7}$ and $\sin \theta > 0$

20) $\cos \theta = \frac{24}{25}$ and $\sin \theta < 0$

21) $\sin \theta = -\frac{2\sqrt{5}}{5}$ and $\cos \theta > 0$

22) $\tan \theta = -5$ and $\cos \theta > 0$

23) $\csc \theta = \frac{3\sqrt{7}}{7}$ and $\cos \theta < 0$

24) $\sec \theta = 2$ and $\sin \theta < 0$