

TRIG EQUATIONS

1) Solve each equation for $0^\circ \leq x < 360^\circ$ (round to nearest tenth of degree).

a) $\sin x = -1/3$

b) $\cot x = -\sqrt{3}/3$

2) Solve each equation for $0 \leq x < 2\pi$ (round to the nearest hundredth of a radian).

a) $\sin x = \sqrt{2}/2$

b) $\cos x = -2/3$

3) Simplify.

a) $\frac{\sec x}{\tan x}$

b) $(\sec x - 1)(\sec x + 1)$

c) $(\sin x)(\sec x)$

4) Prove.

a) $\tan B = \frac{\sec B}{\csc B}$

b) $\sec x - \tan x = \frac{1 - \sin x}{\cos x}$

5) Solve $5 \sin A - \cos A = 0$, for $0 \leq A < 2\pi$ (round to the nearest hundredth of a radian).

6) Find the equation of the following graph.

