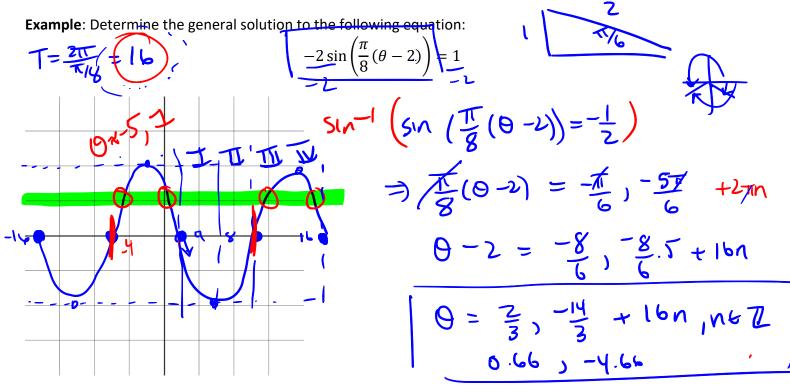
Solving Trig Equations

Goal:

• Can solve trig equations graphically and algebraically.

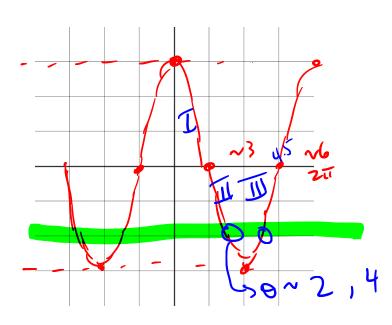
- **Terminology:**
 - None

In addition to using algebra to solve trig equations, we can graph the trig equations and look for approximate (or accurate solutions using technology) solutions in the intersections.



Practice: Find the general solution to the following

$$3\cos\theta = -2$$



$$Cos \Theta = -\frac{2}{3}$$

$$\Theta = arccos(-2/3)$$

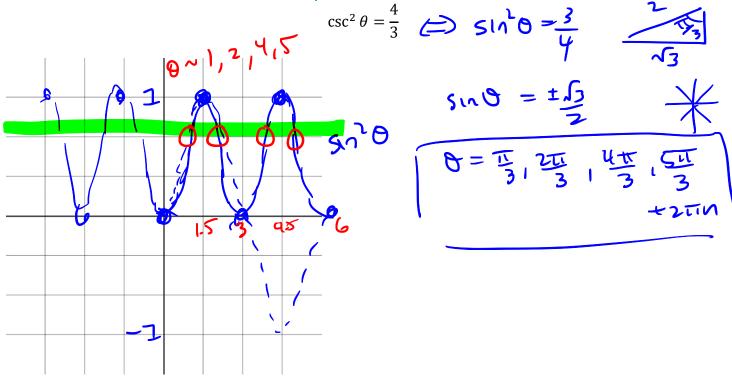
$$= 2.-3, \pi + 0.84$$

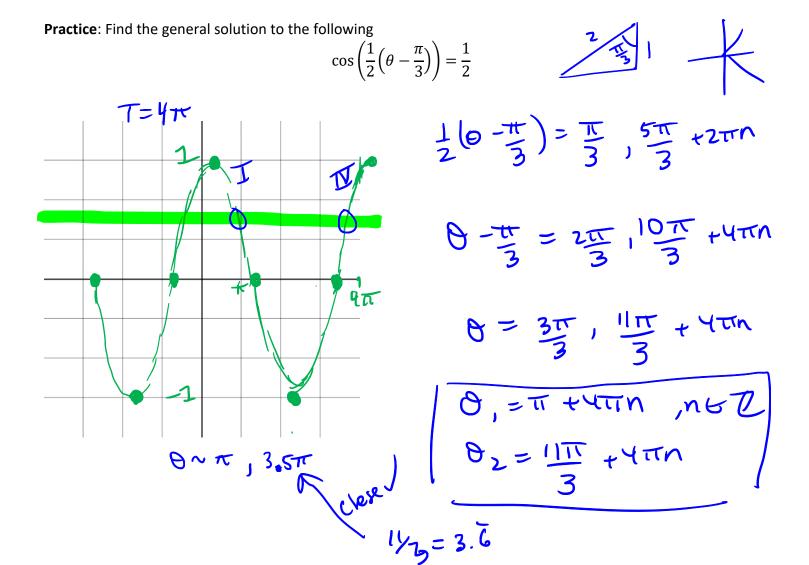
$$3.98, t2\pi n$$

$$\Theta_{1} = 2.-3 + 2\pi n$$

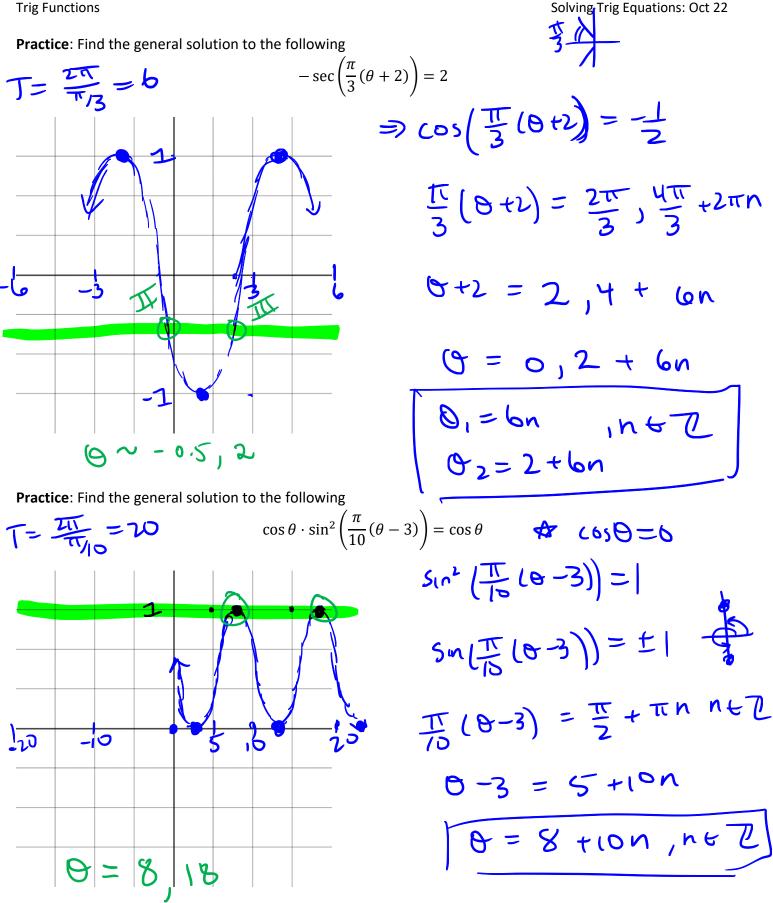
$$\Theta_{2} = 3.98 + 2\pi n$$

Practice: Find the general solution to the following





Trig Functions



Trig Functions

Practice: Find the general solution to the following

