

C12 - 4.5 -  $\sin 2\theta = \frac{1}{2}$  *ASTC Special Unit Decimal HW*  $0 \leq \theta < 2\pi$

$$\cos\left(\frac{1}{2}x\right) = 0$$

$$\tan 2\theta = 1$$

$$\sin 2\theta = -0.4$$

$$\cos(2\theta) = 1$$

$$\sin\left(\frac{1}{2}\theta\right) = \frac{1}{2}$$

$$\tan 4\theta = 0.6$$

$$\tan 2\theta = 1$$

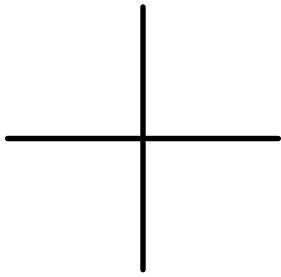
$$\cos\left(\frac{1}{2}\theta\right) = -\frac{1}{\sqrt{2}}$$

$$\sin 3\theta = 0.6$$

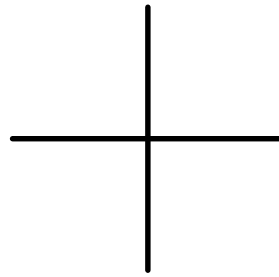
$$\sin 2\theta = \theta$$

# C12 - 4.5 - Algebra Special Trig Decimal Equations HW

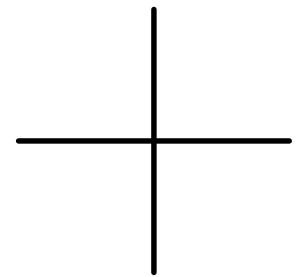
Solve for  $x, 0 \leq x < 2\pi$



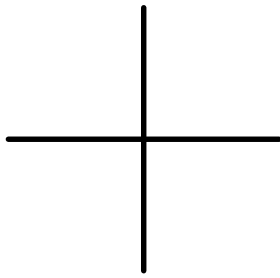
$$2\sin x = 1$$



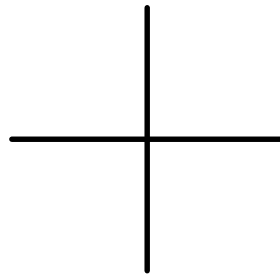
$$\sqrt{2}\cos x - 3 = -2$$



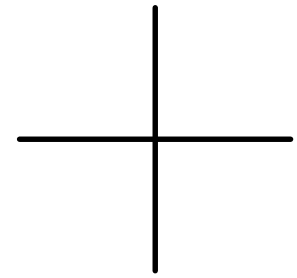
$$-2\sin x + 1 = 5$$



$$4\cos^2 x - 1 = 0$$



$$\sin x - \cos x = 0$$



$$-2\sin^2 x + 32 = 0$$

$$2\tan x = 2$$

$$2\cos x + 1 = 0$$

$$2\cos x = -\sqrt{3}$$

$$\tan^2 x = 1$$

$$4\sin^2 x - 1 = 2$$

$$-\sqrt{2}\sin x - 1 = 0$$

$$2\cos^2 x = 1$$

$$2\sin x = -\sqrt{3}$$

$$\tan x - 2 = -3$$

C12 - 4.5 - Period *HW*

$$0 \leq \theta < 2\pi$$

$$\cos(x - 2) = 0$$

$$\sin(2x - 2) = -\frac{1}{2}$$

$$\tan 2x = 0,2$$

$$\cos\left(\frac{\pi}{3}(x - 2)\right) = \frac{1}{2}$$

$$\sin\left(\frac{\pi}{2}(x - 1)\right) - 1 = 1$$

$$\tan\left(\frac{\pi}{4}(x - 6)\right) = 5$$

$$2 \cot(2\pi - 1) = -3.8$$

$$\cos\left(\frac{\pi}{6}\left(x - \frac{\pi}{3}\right)\right) = 0.2$$

$$2 \tan\left(2\left(x - \frac{\pi}{2}\right)\right) + 3 = 1$$

$$\cot(1.2x) = 7$$