

Find all values of θ for $0 \le \theta \le 360^{\circ}$ that makes this equation true. Round to the nearest hundredth.

$$\frac{5\cos 3\theta = 1}{5} \quad \text{period} = \frac{360}{3} = 120^{\circ}$$

$$\cos 3\theta = .2$$

$$\frac{3\theta = \cos^{-1}(.2)}{3}$$

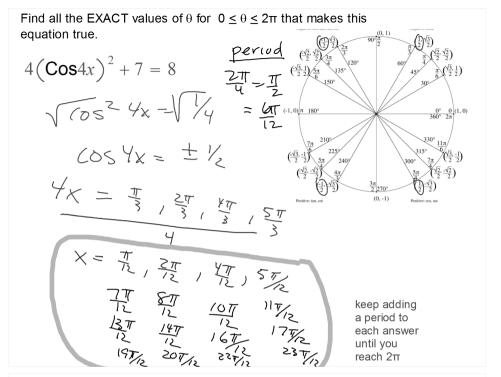
$$\frac{3\theta = 75.46^{\circ}}{3} \quad \text{i.} \quad -78.46$$

$$+360$$

$$\frac{281.54}{3}$$

$$0 = 26.15^{\circ} \quad \text{i.} \quad 213.85^{\circ}$$

$$266.15^{\circ} \quad 332.55^{\circ}$$



Find all values of θ for $0 \le \theta \le 360^{\circ}$ that makes this equation true. Round to the nearest hundredth.

$$5\sin 2\theta - 1 = 1$$

$$5\sin 2\theta - 1 = 1$$

$$2\theta = .4$$

$$2\theta = \sin^{-1}(.4)$$

$$\frac{2\theta}{2} = \frac{23.58^{\circ}}{2} \stackrel{\cancel{\xi}}{=} \frac{156.42}{2}$$

$$\theta = 1/.79^{\circ} \stackrel{\cancel{\xi}}{=} 76.21^{\circ}$$

$$191.79^{\circ} = 256.21^{\circ}$$

Find all values of θ for $0 \le \theta \le 2\pi$ that makes this equation true. Round to the nearest hundredth.

8Cos20 - 2 = 4

$$+2$$
 + 2 + 2 period = $\frac{2\pi}{2}$ = π
8 cos20 = .75
 $\frac{20}{8}$ = .75
 $\frac{20}{2}$ = .72 $\frac{2}{2}$ -.72
 $\frac{1}{2}$ + $\frac{2\pi}{2}$ $\frac{1}{2}$ $\frac{1}{2}$