

Solving Trig Equations w/ Calculator

(36) $45^\circ, 225^\circ, 108.4^\circ, 288.4^\circ$

(40) $90^\circ, 270^\circ, 7.2^\circ, 172.8^\circ$

(44) $38.4^\circ, 218.4^\circ, 104.8^\circ, 284.8^\circ$

(48) $114.3^\circ, 335.7^\circ$

(52) $2 \cos^2 x + 5 \cos x + 2 = 0$

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

$$\cos x = -\frac{1}{2}$$

$$\cos x = -2$$

No real solutions

$$x = \frac{2\pi}{3} + 2\pi n$$

$$\frac{4\pi}{3} + 2\pi n$$

OPTIONAL EXTRA PRACTICE

(38) $33.6^\circ, 326.4^\circ$ (42) $78.0^\circ, 282.0^\circ$

(46) $149.6^\circ, 329.6^\circ, 106.3^\circ, 286.3^\circ$