

Solving Trig Equations w/ a Calculator

(47) .464, 3.605 (49) $\frac{\pi}{4}, \frac{3\pi}{4}, \frac{5\pi}{4}, \frac{7\pi}{4}$

(51) $\frac{\pi}{8}, \frac{3\pi}{8}, \frac{5\pi}{8}, \frac{7\pi}{8}, \frac{9\pi}{8}, \frac{11\pi}{8}, \frac{13\pi}{8}, \frac{15\pi}{8}$

(53) $\frac{\pi}{3}, \pi, \frac{5\pi}{3}$ (55) 270° (57) $45^\circ, 90^\circ, 225^\circ, 270^\circ$

(59) $70.5^\circ, 289.5^\circ, 180^\circ$

(61) $\sin(2\theta) + \sin 2(2\theta) = 0$

$\sin(2\theta) + 2\sin(2\theta)\cos(2\theta) = 0$

$\sin(2\theta)[1 + 2\cos(2\theta)] = 0$

$\sin(2\theta) = 0$ $\cos(2\theta) = -\frac{1}{2}$



$2\theta = 0^\circ, 180^\circ, 360^\circ, 540^\circ$

$2\theta = 120^\circ, 240^\circ, 480^\circ, 600^\circ$

$\theta = 0^\circ, 90^\circ, 180^\circ, 270^\circ$

$\theta = 60^\circ, 120^\circ, 240^\circ, 300^\circ$

OPTIONAL EXTRA PRACTICE EVENS

(48) .730, $\frac{\pi}{2}, 2.411$ (50) $\frac{\pi}{8}, \frac{3\pi}{8}, \frac{5\pi}{8}, \frac{7\pi}{8}, \frac{9\pi}{8}, \frac{11\pi}{8}, \frac{13\pi}{8}, \frac{15\pi}{8}$

(52) 0 (54) $\frac{\pi}{6}, \frac{\pi}{3}, \frac{7\pi}{6}, \frac{4\pi}{3}$ (56) $45^\circ, 225^\circ$
 $153.4^\circ, 333.4^\circ$

(58) $15^\circ, 75^\circ, 195^\circ, 255^\circ$

(60) $53.5^\circ, 118.4^\circ, 233.5^\circ, 298.4^\circ$

(62) $60^\circ, 180^\circ, 300^\circ$