

- 1) Solve the equation for the interval $[0, 2\pi)$.
 $\sin^2 x + \sin x = 0$

- 2) Solve the equation in the interval $[0^\circ, 360^\circ)$.
 $4 \sin^2 \theta = 3$

- 3) Determine the solution set of the equation in radians.
 $\cos^2 x + 2 \cos x = -1$

- 4) Determine the solution set of the equation in degrees to the nearest tenth as appropriate.
 $3 \cos^2 \theta + 2 \cos \theta = 1$

Answer Key

Testname: WORKSHEET 6.2 - TRIG EQUATIONS I

1) $\left\{0, \pi, \frac{3\pi}{2}\right\}$

2) $\{60^\circ, 120^\circ, 240^\circ, 300^\circ\}$

3) $\{\pi + 2n\pi\}$

4) $\{70.5^\circ + 360^\circ n, 180^\circ + 360^\circ n, 289.5^\circ + 360^\circ n\}$