



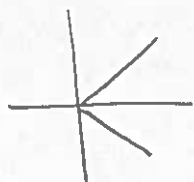
Solve each of the following equations where $0^\circ \leq \theta < 360^\circ$.

a) $10\cos\theta = 5$

$$\cos\theta = \frac{5}{10}$$

$$\cos\theta = \frac{1}{2}$$

$$\theta_R = 60^\circ$$



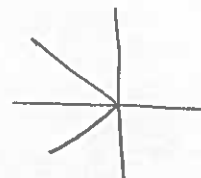
$$\theta = 60^\circ, 300^\circ$$

b) $\sqrt{3} + 2\cos\theta = 0$

$$\frac{2\cos\theta}{2} = \frac{-\sqrt{3}}{2}$$

$$\cos\theta = -\frac{\sqrt{3}}{2}$$

$$\theta_R = 30^\circ$$



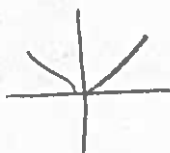
$$\theta = 150^\circ, 210^\circ$$

c) $2\sin\theta - 1 = 0$

$$2\sin\theta = 1$$

$$\sin\theta = \frac{1}{2}$$

$$\theta_R = 30^\circ$$



$$\theta = 30^\circ, 150^\circ$$

d) $2\sin\theta + 3 = 3 - \sqrt{2}$

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

$$\frac{2\sin\theta}{2} = \frac{-\sqrt{2}}{2}$$

$$\sin\theta = -\frac{\sqrt{2}}{2}$$

$$\theta_R = 45^\circ$$

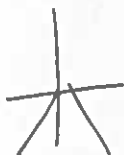


$$\theta = 225^\circ, 315^\circ$$

e) $2\sin\theta = -\sqrt{3}$

$$\sin\theta = -\frac{\sqrt{3}}{2}$$

$$\theta_R = 60^\circ$$



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

f) $4\cos\theta - 5 = -7$

$$4\cos\theta = -2$$

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

$$\theta_R = 60^\circ$$



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