

Solve the following equations for θ on $[0, 2\pi)$

$$\sin\left(\theta - \frac{\pi}{2}\right) = \frac{1}{2}$$

Solve the following equations for θ on $[0, 2\pi)$

$$\cos\left(\theta + \frac{\pi}{6}\right) = -\frac{1}{2}$$

Solve the following equations for θ on $[0, 2\pi)$

$$\sin(2\theta - \pi) = -1$$

Solve the following equations for θ on $[0, 2\pi)$

$$\cos(2\theta + \pi) = -1$$