

7.9

$$\cos 2x - 3 \sin x = 2$$

$$1 - 2 \sin^2 x - 3 \sin x = 2$$

$$2 \sin^2 x + 3 \sin x + 1 = 0$$

$$\sin x = -1 \rightarrow x = -\frac{\pi}{2} + 2\pi k$$

$$\sin x = -\frac{1}{2} \rightarrow \left. \begin{array}{l} x = -\frac{\pi}{6} + 2\pi k \\ x = \frac{7\pi}{6} + 2\pi k \end{array} \right\}$$

$k \in \mathbb{Z}$