1 Solve for $0 \le x \le 2\pi$.

(a)
$$\sin x = 1$$

(b)
$$\cos x = 0$$

(d)
$$\sqrt{3}$$
 co

(e)
$$\sec x = -2$$

(f)
$$\cot x = \sqrt{3}$$

(a)
$$\sin x = 1$$
 (b) $\cos x = 0$ (c) $\tan x = -1$ (d) $\sqrt{3} \csc x = 2$ (e) $\sec x = -2$ (f) $\cot x = \sqrt{3}$ (g) $2 \sin \left(x - \frac{\pi}{6}\right) + 1 = 0$ (h) $\cos \frac{x}{2} = 1$ (i) $2 \sin^2 x = 1$ (j) $\sin x = 0.3894$

(h)
$$\cos \frac{x}{2} = 1$$

(i)
$$2\sin^2 x = 1$$

$$\sin x = 0.3894$$

- **3** Solve for $-\pi \le x \le \pi$.
 - (a) $\cos^2 x 2\cos x + 1 = 0$ (b) $\sin^2 x = \sin x$ (c) $\cos 2x = \sin x$

- **3** Solve for $-\pi \le x \le \pi$.
 - (d) $\sin^2 x = 1 \cos x$ (e) $\cos 2x = 2 + \cos x$ (f) $\tan 2x = \cot x$

- **5** Solve for $0 \le \theta \le 2\pi$.
- (a) $\sqrt{2} \sin 2\theta + 1 = 0$ (b) $\tan \left(\theta \frac{\pi}{3}\right) = -\sqrt{3}$ (c) $\cos 2\theta \cos \frac{\pi}{6} \sin 2\theta \sin \frac{\pi}{6} = 0.5$

- **6** Solve for $-\pi \le \theta \le \pi$.
 - (a) $\cos 3\theta = \cos \theta$
- (b) $2\cos 2\theta = 4\cos \theta 3$ (c) $3\tan 2\theta = 2\tan \theta$

- **6** Solve for $-\pi \le \theta \le \pi$.
 - (d) $\tan\left(2\theta \frac{\pi}{4}\right) + 1 = 0$ (e) $2\cos\left(2\theta \frac{\pi}{3}\right) = \sqrt{3}$ (f) $2\sin^2\theta + \cos\theta = 1$

- **8** Solve for $0 \le \theta \le 2\pi$.
 - (a) $\tan^3 \theta \tan \theta = 0$
- **(b)** $\tan \theta = \sin \theta$
- (c) $\sec 2\theta = \csc 2\theta$

- **8** Solve for $0 \le \theta \le 2\pi$.
 - (d) $\sin 2\theta = \tan \theta$
- (e) $\sin 3\theta = \sin 2\theta$