Solve these equations giving all solutions between 0° and 180°.
Write your answers to three significant figures where appropriate.

**a** $\sin 2x = 0.5$

**b** $\sin 3x = 1$

**c** $\cos 2x = 0.5$

**d** $\cos\left(\dfrac{x}{2}\right) = 0.5$

**e** $\tan 2x = 1$

**f** $\cos 2\theta = -0.6$

**g** $\tan 2\theta = -0.5$

**h** $\tan\left(\dfrac{\theta}{2}\right) = \sqrt{3}$

**i** $\sin 4x = \dfrac{\sqrt{2}}{2}$

**j** $\tan\left(\dfrac{\theta}{3}\right) = 0.3$