

Solutions

Each answer shows the steps, then the **result**.

2.1

- $x = 0$ and $x = \pi$

2.2

- sine and cosine are periodic, so each solution repeats every 2π

2.3

- $\cos x = 1$ at $x = 0$ only on $[0, 2\pi)$

3.1 B

3.2 B

3.3

(a)

- $x = \frac{\pi}{2}$

(b)

- $x = \frac{\pi}{2} + 2\pi n$

(c)

- 2π