

UNIT 6 MCR 3UI Exam Review

1. Fill in the blanks below and graph the following sinusoidal function for **one cycle**.

$$y = 4 \cos(2x - 60^\circ) + 5$$

Amplitude: _____

Period: _____

Phase Shift: _____

Vertical Shift: _____

Minimum Value: _____

Maximum Value: _____

2. Solve for θ , $0 \leq \theta \leq 360^\circ$

a) $\sqrt{2}\cos\theta + 1 = 0$

b) $2\sin^2\theta + \sin\theta - 1 = 0$