Trigonometry Q5 (30/6/23)

Solve:

- (i) $\sin \theta = 0.5$ (no restriction on θ)
- (ii) $cos\theta = 0.5$ (no restriction on θ)

where θ is in radians

Solution

- (i) From the sine graph, $\theta = n\pi + (-1)^n \left(\frac{\pi}{6}\right)$
- (ii) From the cosine graph, $\theta=2n\pi\pm\left(\frac{\pi}{3}\right)$