Trigonometry Q5 (30/6/23)

Solve:
(i) $\sin \theta=0.5$ (no restriction on $\theta$ )
(ii) $\cos \theta=0.5$ (no restriction on $\theta)$
where $\theta$ is in radians

## Solution

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

