

Trigonometry Q1 (30/6/23)

If $\sin\theta = 0.6$, where $0 \leq \theta < 360^\circ$, find $\tan\theta$

Solution

$$\tan\theta = \frac{\sin\theta}{\cos\theta} = \frac{\sin\theta}{\pm\sqrt{1-\sin^2\theta}} = \frac{\pm 0.6}{0.8} = \pm \frac{3}{4} \text{ (or draw graphs)}$$