Practice worksheet | Pythagoras and Trigonometry

Sine/cosine graphs and symmetry

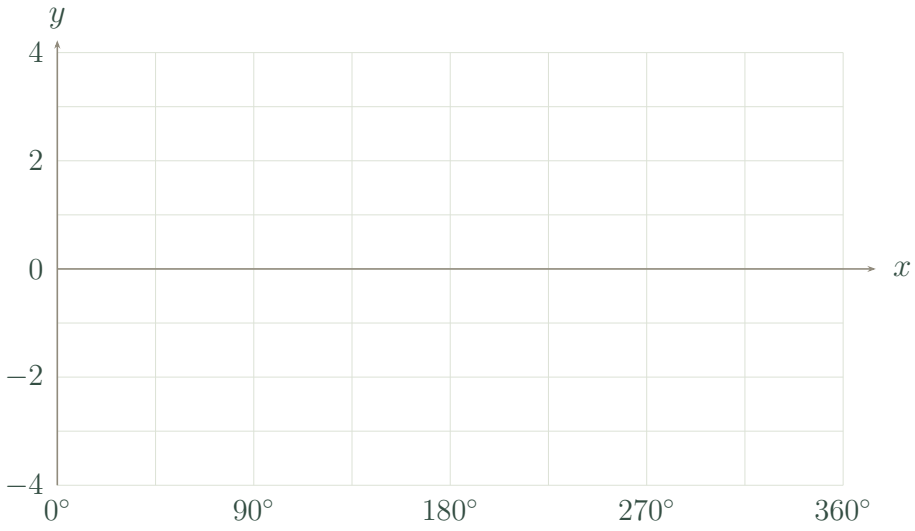
Name: _____ Date: _____

6 questions | 17 marks

1. State the amplitude, period and range of $y = 4\sin(2x) + 1$. [3 marks]

2. Give $y = \cos x$ at $x = 0^\circ$, 90°, 180°, 270° and 360°. [2 marks]

3. Sketch $y = \sin x$ for $0^\circ \leq x \leq 360^\circ$ on the supplied grid. Label the intercepts and turning points. [4 marks]



4. Describe how $y = -2\cos x$ differs from $y = 2\cos x$. [2 marks]

5. Explain why $\sin(360^\circ - x) = -\sin x$ using the unit circle. [3 marks]

6. A sine graph has maximum 3, minimum -1 and period 360°. It crosses its midline upwards at $x = 0^\circ$. Give a rule. [3 marks]