Practice worksheet | Further trigonometry

# Transformed sinusoidal models including phase shift

Name: _____ Date: _____

6 questions | 12 marks

**1.** State the amplitude and range of $4\sin x - 2$. [2 marks]

**2.** Find the period of $2\cos(x/3)$. [2 marks]

**3.** Find the horizontal shift of $\sin(4x - \pi)$. [2 marks]

**4.** A cosine graph has range $[-5, 3]$, period $2\pi$ and a maximum at 0. Give a rule. [2 marks]

**5.** Find the first two maxima of $2\cos(\pi x/3)$ for $x \geq 0$. [2 marks]

**6.** Explain the difference between $\sin x + 4$ and $4\sin x$. [2 marks]