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 $2\cos(\frac{x}{3})$. [2 marks]

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

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

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

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