Practice worksheet | Trigonometry

Simple transformations and periodicity

Name: _____ Date: _____

6 questions | 18 marks

1. State amplitude and range of $y = 5 + 3\sin x$. [3 marks]

2. Find the period of $y = \cos(\frac{x}{2})$. [3 marks]

3. Describe the shift in $y = \sin(x - \frac{\pi}{3})$. [3 marks]

4. For $y = \tan(2x)$, find its period and closest asymptotes to 0. [3 marks]

5. A cosine model has maximum 7, minimum -1, period 6 and starts at its maximum. Give a rule. [3 marks]

6. Find the first maximum for $x \geq 0$ of $y = 2\sin(x - \frac{\pi}{4})$. [3 marks]