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| **Topic 3: Geometry and Trigonometry** | **Sine and Cosine Models** |
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| 1. Let for and let .The function can be written in the form .
	1. The range of is . Find and .
	2. Find the range of .
	3. Find the value of and .
	4. Find the period of .
 | (3 marks)(2 marks)(3 marks)(2 marks) |
| Mark scheme:1. Correct working with the amplitude and vertical translation.
2.

 and  | (M1)(A1)(A1)(A1)(A1)(M1)(A1)(A1)(M1)(A1) |