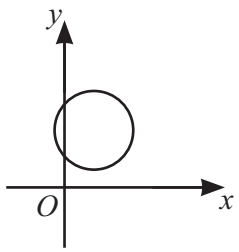
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3 **(a)** Solve the equation $\log_2 x - 4 = 5\log_x 2$. [5]

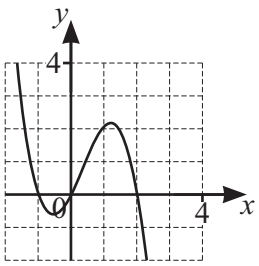
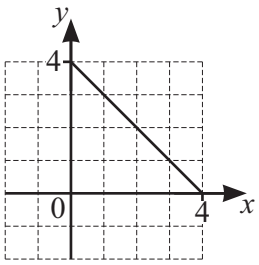
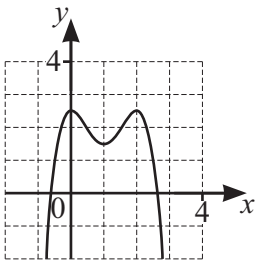
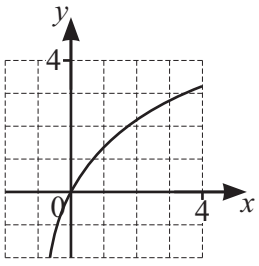
(b) Solve the equation $e^{x^2-3} = 25e^{7-x^2}$. [4]

4 (a)



Explain why this graph does **not** represent a function. [1]

(b) The table shows the graphs of four different functions.

	is one-one	is many-one	is its own inverse
			
			
			
			

Tick (✓) each correct box in the table.
There may be more than one tick in a row or a column. [4]

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