|  |  |
| --- | --- |
| **Topic 2: Functions**  | **Solving Exponential Equations** |
|  |
| 1. Curtis takes medication. After hours, the concentration of medication left in his bloodstream is given by , where is in milligrams per liter.
	1. Write down
	2. Find the concentration of medication in his bloodstream after an hour and half
	3. At 2:00pm, when there is no medication in his bloodstream, he takes his first pill. He can take his second pill when the medication concentration reaches 0.45 mg/L. What time can Curtis take his second pill?
 | (2 marks)(2 marks)(5 marks) |
| Mark scheme: mg/L1. hrsHe can take his next pill at 12:00am
 | (A1) (M1)(A1)(M1)(M1)(A1)(A1)(A1) |