

Subject - Math AA(Standard Level)
Topic - Calculus
Year - May 2021 - Nov 2022
Paper -2
Answers

Question 1

- (a) use of a graph to find the coordinates of the local minimum (M1)
 $x = -16.513\dots$ (A1)
 maximum distance is 16.5 cm (to the left of O) A1
 [3 marks]
- (b) attempt to find time when particle changes direction eg considering the first maximum on the graph of x or the first t -intercept on the graph of x' . (M1)
 $t = 1.51986\dots$ (A1)
 attempt to find the gradient of x' for their value of t , $x''(1.51986\dots)$ (M1)
 $= -8.92 \text{ (cm/s}^2\text{)}$ A1
 [4 marks]
 Total [7 marks]

Question 2

- (a) Attempt to find the point of intersection of the graph of f and the line $y = x$ (M1)
 $x = 5.56619\dots$
 $= 5.57$ A1
 [2 marks]
- (b) $f'(x) = -45e^{-0.5x}$ A1
 attempt to set the gradient of f equal to -1 (M1)
 $-45e^{-0.5x} = -1$
 Q has coordinates $(2 \ln 45, 2)$ (accept $(-2 \ln \frac{1}{45}, 2)$) A1A1

Note: Award **A1** for each value, even if the answer is not given as a coordinate pair.

Do not accept $\frac{\ln \frac{1}{45}}{-0.5}$ or $\frac{\ln 45}{0.5}$ as a final value for x . Do not accept 2.0 or 2.00 as a final value for y .

[4 marks]

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