

Subject – Math AI(Higher Level)
Topic - Function
Year - May 2021 – Nov 2022
Paper -2
Answers

Question 1

(a) $y = \frac{5}{8}x + \frac{7}{2}$ ($y = 0.625x + 3.5$)

A1A1

Note: Award **A1** for 0.625x, **A1** for 3.5.
 Award a maximum of **A0A1** if not part of an equation.

[2 marks]

(b) (i) $y = 0.975x^2 + 9.56x - 16.7$
 ($y = 0.974630x^2 + 9.55919x - 16.6569...$)

(M1)A1

(ii) gradient of curve is positive at $x = 4$

R1

Note: Accept a sensible rationale that refers to the gradient.

[3 marks]

(c) **METHOD 1**

let $y = ax^2 + bx + c$

differentiating or using $x = \frac{-b}{2a}$

(M1)

$8a + b = 0$

substituting in the coordinates

$7.5^2 a + 7.5b + c = 0$

(A1)

$4^2 a + 4b + c = 6$

(A1)

solve to get

$y = -\frac{24}{49}x^2 + \frac{192}{49}x - \frac{90}{49}$ **OR** $y = -0.490x^2 + 3.92x - 1.84$

A1

Note: Use of quadratic regression with points using the symmetry of the graph is a valid method.

METHOD 2

$y = a(x - 4)^2 + 6$

(M1)

$0 = a(7.5 - 4)^2 + 6$

(M1)

$a = -\frac{24}{49}$

(A1)

$y = -\frac{24}{49}(x - 4)^2 + 6$ **OR** $y = -0.490(x - 4)^2 + 6$

A1

[4 marks]

201ib Hl Math

Liyong Dong



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