

**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 **AQA1** if not part of an equation.

**{2 marks}**

(b) (i)  $y = 0.975x^2 + 9.56x - 16.7$   
 $(y = 0.974620x^2 + 9.55919x - 16.6569\dots)$

**(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  $x = \frac{-b}{2a}$   
 $2ax + b = 0$

**(M1)**

substituting in the coordinates:

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

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

**(A1)**

**(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 HI Math

**Liying Dong**

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