#### IB Math SL 2 - Integration Worksheet

Name

1. The function f is such that f''(x) = 2x - 2.

When the graph of f is drawn, it has a minimum point at (3, -7).

(a) i) Find f'(x)

ii) Hence find f(x).

(6)

(b) Find f (0), f (−1) and f '(−1).

(30)

(c) Hence sketch the graph of f labelling it with the information obtained in part (b).

(4)

(Note: It is not necessary to find the coordinates of the points where the graph cuts the x-axis.)

(Total 13 mg)

(Total 13 marks)

- 2. Find (a)  $\int \sin(3x+7) dx$ ;
- (b)  $\int e^{-4x} dx$ .

(Total 4 marks)

3. Let  $f(t) = r^{\frac{1}{2}} \left( 1 - \frac{1}{2r^{\frac{5}{2}}} \right)$ . Find  $\int f(r) dr$ .

(Total 3 marks)

- 4. Let  $f(x) = \sqrt{x^3}$ . Find
  - (a)  $f^{\prime\prime}(x)$ :

(b) ∫ f(x)dx.

(Total 6 marks)

- 5. (a) Find  $\int_0^{\infty} \frac{dx}{2x+3}$ , giving your answer in terms of m.
  - (b) Given that  $\int_0^{\infty} \frac{dx}{2x+3} = 1$ , calculate the value of m.

(Total 6 marks)

6. The derivative of the function f is given by  $f'(x) = e^{-2x} + \frac{1}{1-x}$ ,  $x \le 1$ .

The graph of y = f(x) passes through the point (0, 4). Find an expression for f(x). (Total 6 marks)

- 7. Let f be a function such that  $\int_0^3 f(x) dx = 8$ .
  - (a) Deduce the value of
    - (i)  $\int_0^3 2f(x) dx;$
- (ii)  $\int_0^x (f(x)+2) dx.$
- (b)  $\int_{c}^{d} f(x-2)dx = 8$ , write down the value of c and of d.

(Total 6 marks)

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