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Answer ALL questions. Write your answers in the spaces provided.

1. Find

$$\int\left(\frac{2}{3}x^3 - \frac{1}{2x^3} + 5\right)\mathrm{d}x$$

simplifying your answer.

(4)

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Question 1 continued

Q1

(Total 4 marks)

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2. Given

$$\frac{3^x}{3^{4y}} = 27\sqrt{3}$$

find y as a simplified function of x.

(3)

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