

**Total marks – 120**  
**Attempt Questions 1–10**  
**All questions are of equal value**

Answer each question in a SEPARATE writing booklet. Extra writing booklets are available.

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	<b>Marks</b>
<b>Question 1</b> (12 marks) Use a SEPARATE writing booklet.	
(a) Evaluate, correct to three significant figures, $\frac{5.8^2 - 3.1^3}{3 \times 3.1 \times 5.8} .$	<b>2</b>
(b) Differentiate $x^3 + 2$ .	<b>2</b>
(c) Solve $x^2 = 5x$ .	<b>2</b>
(d) Integrate $\frac{3}{x}$ .	<b>1</b>
(e) Solve $3x - \frac{2x-5}{2} = 6$ .	<b>3</b>
(f) Solve the pair of simultaneous equations $\begin{aligned} x - 2y &= 8 \\ 2x + y &= 1 . \end{aligned}$	<b>2</b>