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**2.** Determine

(i) $\int \frac{1}{3x^2 + 12x + 24} \, dx$

**(4)**

(ii) $\int \frac{1}{\sqrt{27 - 6x - x^2}} \, dx$

**(4)**

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**Question 2 continued**

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**Question 2 continued**

**Q2**

**(Total 8 marks)**