

- 7 Let $I_n = \int_0^1 (1-x)^n e^x dx$. Show that, for all positive integers n ,

$$I_n = nI_{n-1} - 1. \quad [3]$$

Find the exact value of I_4 . [4]

By considering the area of the region enclosed by the x -axis, the y -axis and the curve with equation $y = (1-x)^4 e^x$ in the interval $0 \leq x \leq 1$, show that

$$\frac{64}{24} < e < \frac{11}{4}. \quad [3]$$

- 8 A circle has polar equation $r = a$, for $0 \leq \theta < 2\pi$, and a cardioid has polar equation $r = a(1 - \cos \theta)$, for $0 \leq \theta < 2\pi$, where a is a positive constant. Draw sketches of the circle and the cardioid on the same diagram. [3]

Write down the polar coordinates of the points of intersection of the circle and the cardioid. [2]

Show that the area of the region that is both inside the circle and inside the cardioid is

$$\left(\frac{5}{4}\pi - 2\right)a^2. \quad [6]$$

- 9 Given that

$$x \frac{d^2 y}{dx^2} + (2x + 2) \frac{dy}{dx} + (2 - 3x)y = 10e^{2x}$$

and that $v = xy$, show that

$$\frac{d^2 v}{dx^2} + 2 \frac{dv}{dx} - 3v = 10e^{2x}. \quad [4]$$

Find the general solution for y in terms of x . [7]

- 10 The line l_1 is parallel to the vector $\mathbf{i} - 2\mathbf{j} - 3\mathbf{k}$ and passes through the point A , whose position vector is $3\mathbf{i} + 3\mathbf{j} - 4\mathbf{k}$. The line l_2 is parallel to the vector $-2\mathbf{i} + \mathbf{j} + 3\mathbf{k}$ and passes through the point B , whose position vector is $-3\mathbf{i} - \mathbf{j} + 2\mathbf{k}$. The point P on l_1 and the point Q on l_2 are such that PQ is perpendicular to both l_1 and l_2 . Find

(i) the length PQ , [5]

(ii) the cartesian equation of the plane Π containing PQ and l_2 , [4]

(iii) the perpendicular distance of A from Π . [3]

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