

$$24 \text{ (a) } P(X=0) + P(X=1) + P(X=2) + P(X=3) = 1$$

$$P(X=0) + a + b + P(X=3) = 1$$

$$P(X=0) + P(X=3) = 1 - a - b$$

$$P(X=0) + P(X > 2) = 1 - a - b$$

$$(b) \quad P(X=0) = \frac{27}{343}$$

$${}^nC_0 (p^0) (1-p)^3 = \frac{27}{343}$$

$$1 \times 1 \times (1-p)^3 = \left(\frac{3}{7}\right)^3$$

$$1-p = \frac{3}{7}$$

$$p = \frac{4}{7}$$

$$25 \text{ (a) } P(X < h) = 0.5 = 0.2881$$

$$P(X < h) = 0.2119$$

$$P(X < -0.8) = 0.2119$$

$$h = -0.8$$

$$(b) \quad X = 58.8$$

$$\frac{X - \mu}{\sigma} = \frac{58.8 - \mu}{\sigma}$$

$$Z = \frac{58.8 - \mu}{4}$$

$$h = \frac{58.8 - \mu}{4}$$

$$-0.8 = \frac{58.8 - \mu}{4}$$

$$-3.2 = 58.8 - \mu$$

$$\mu = 58.8 + 3.2 = 62$$

Hence, the solutions are $x = 2, y = \frac{1}{3}$

$$\text{or } x = -1, y = -\frac{2}{3}$$

$$2 \text{ (a) } y = \frac{5}{x^2} = 5x^{-2}$$

$$\frac{dy}{dx} = -10x^{-3}$$

$$= -\frac{10}{x^3}$$

$$= -\frac{10}{3^3}$$

$$= -\frac{10}{27}$$

$$(b) \quad \delta x = 2.98 - 3 = -0.02$$

$$\delta y = \frac{dy}{dx} \cdot \delta x$$

$$= -\frac{10}{27} \times (-0.02) = 0.007407$$

$$\text{Values of } \frac{5}{(2.98)^2} = y + \delta y$$

$$= \frac{5}{x^2} + (0.007407)$$

$$= \frac{5}{3^2} + (0.007407)$$

$$= 0.56296$$

$$3 \text{ (a) Length of arc } AB = 2 \text{ cm}$$

$$r\theta = 2 \quad \dots\dots\dots \textcircled{1}$$

$$\text{Length of arc } CD = 7 \text{ cm}$$

$$(r+10)\theta = 7 \quad \dots\dots\dots \textcircled{2}$$

$$\text{Substitute } \textcircled{1} \text{ into } \textcircled{2}: 2 + 10\theta = 7$$

$$10\theta = 5$$

$$\theta = \frac{5}{10}$$

$$= 0.5 \text{ rad}$$

From $\textcircled{1}$: When $\theta = 0.5 \text{ rad}$,

$$r \times 0.5 = 2$$

$$r = 4$$

$$(b) \text{ Area of shaded region}$$

= area of ΔOCD - area of sector OAB

$$= \left(\frac{1}{2} \times 14^2 \times \sin 0.5 \text{ rad}\right) - \left(\frac{1}{2} \times 4^2 \times 0.5\right)$$

$$= 42.978 \text{ cm}^2$$

$$4 \text{ (a) } 5, 8, 11, \dots$$

$$a = 5, d = 3$$

$$(i) \quad T_{54} = a + (54-1)d$$

$$= 5 + 53(3)$$

$$= 164 \text{ cm}$$

PAPER 2

Section A

$$1 \quad x - 3y = 1 \quad \dots\dots\dots \textcircled{1}$$

$$x^2 + 3xy + 9y^2 = 7 \quad \dots\dots\dots \textcircled{2}$$

$$\text{From } \textcircled{1}: x = 3y + 1 \quad \dots\dots\dots \textcircled{3}$$

Substitute $\textcircled{3}$ into $\textcircled{2}$:

$$(3y + 1)^2 + 3(3y + 1)y + 9y^2 = 7$$

$$9y^2 + 6y + 1 + 9y^2 + 3y + 9y^2 - 7 = 0$$

$$27y^2 + 9y - 6 = 0$$

$$9y^2 + 3y - 2 = 0$$

$$(3y - 1)(3y + 2) = 0$$

$$y = \frac{1}{3} \text{ or } -\frac{2}{3}$$

$$\text{When } y = \frac{1}{3}, x = 3\left(\frac{1}{3}\right) + 1 = 2$$

$$\text{When } y = -\frac{2}{3}, x = 3\left(-\frac{2}{3}\right) + 1 = -1$$

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