

Question 11

- a) Find the inverse of the function $y = x^3 - 2$

Substitute x for y

$$x = y^3 - 2$$

$$x + 2 = y^3$$

$$y = \sqrt[3]{x + 2}$$

- b) Integration by substitution

$$\int x\sqrt{x-4}dx$$

$$\text{Let } u = x - 4 \quad du = dx$$

$$\int (u + 4)\sqrt{u}du = \int u^{\frac{3}{2}} + 4u^{\frac{1}{2}}du = u^{\frac{5}{2}} \cdot \frac{2}{5} + 4u^{\frac{3}{2}} \cdot \frac{2}{3} + C$$

$$= (x - 4)^{\frac{5}{2}} \cdot \frac{2}{5} + 4(x - 4)^{\frac{3}{2}} \cdot \frac{2}{3} + C$$

- c) Differentiate $3 \tan^{-1} 2x$

$$\frac{6}{4x^2 + 1}$$

- d) Limit

$$\lim_{x \rightarrow 0} \frac{2 \sin x \cos x}{3x} = \lim_{x \rightarrow 0} \frac{\sin(2x)}{3x} = \lim_{x \rightarrow 0} \frac{\sin(2x)}{2x \cdot \frac{3}{2}} = \frac{1}{\frac{3}{2}} = \frac{2}{3}$$

- e) Solve

$$\frac{3}{2x + 5} - x > 0$$

$$x \neq -\frac{5}{2}$$

$$-\frac{(x + 3)(2x - 1)}{2x + 5} > 0$$

$$\text{After testing points, } -\frac{5}{2} < x < \frac{1}{2} \text{ and } x < -3$$

- f)

$$\text{i) } \binom{3}{1} \left(\frac{3}{5}\right) \cdot \left(\frac{2}{5}\right)^2 = 0.288$$

$$\text{ii) } 1 - P(0) - P(1)$$

$$\text{iii) } 1 - \binom{6}{0} \left(\frac{3}{5}\right)^0 \cdot \left(\frac{2}{5}\right)^6 - \binom{6}{1} \left(\frac{3}{5}\right) \cdot \left(\frac{2}{5}\right)^5 = 0.95904$$

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