



The diagram shows part of the curve $y = x^2 + 1$. Find the volume obtained when the shaded region is rotated through 360° about the y -axis. [4]



The diagram shows a triangle AOB in which OA is 12 cm, OB is 5 cm and angle AOB is a right angle. Point P lies on AB and OP is an arc of a circle with centre A . Point Q lies on AB and OQ is an arc of a circle with centre B .

- Show that angle BOQ is 0.3948 radians, correct to 4 decimal places. [1]
- Calculate the area of the shaded region. [3]

- Find the first 3 terms, in ascending powers of x , in the expansion of $(1 + x)^5$. [2]
The coefficient of x^2 in the expansion of $(1 + (px + x^2))^5$ is 95.
(ii) Use the answer to part (i) to find the value of the positive constant p . [3]

- A curve has equation $y = \frac{12}{3 - 2x}$.
(i) Find $\frac{dy}{dx}$. [2]

A point moves along this curve. As the point passes through A , the x -coordinate is increasing at a rate of 0.15 units per second and the y -coordinate is increasing at a rate of 0.4 units per second.

- Find the possible x -coordinates of A . [4]

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