

Q9

The diagram shows part of the curve $y = -3 + 2\sqrt{x+4}$. The point $P(5, 3)$ lies on the curve. Region A is bounded by the curve, the x -axis, the y -axis and the line $x = 5$. Region B is bounded by the curve, the y -axis and the line $y = 3$.

- (iii) By first writing the equation of the curve in the form $x = f(y)$, use integration to show that the exact area of region B is $\frac{13}{3}$. [7]

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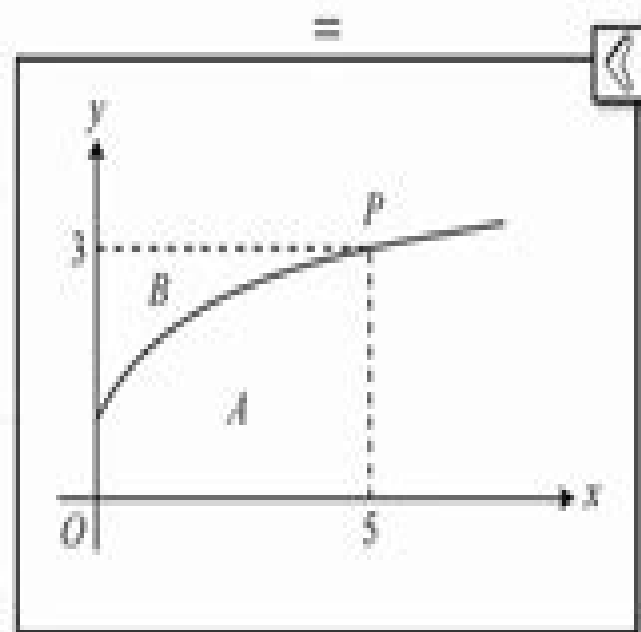
$$\frac{y+3}{2} = \sqrt{x+4}$$

$$\left(\frac{y+3}{2}\right)^2 = x+4$$

$$\left(\frac{1}{2}y + \frac{3}{2}\right)^2 - 4 = x$$

$$\frac{1}{4}y^2 + \frac{3}{2}y + \frac{9}{4} - 4 = x$$

$$\frac{1}{4}y^2 + \frac{3}{2}y - \frac{7}{4} = x$$



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