



Revision exercise

Plenty of exercises (with answers) throughout

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1 Given the equation:

$$x^2 + y^3 = 1$$

- Transpose the equation to make y the subject of the transposed equation.
- Construct ordered pairs of numbers corresponding to the integer values of x where $-5 \leq x \leq 5$.
- Plot the ordered pairs of numbers on a Cartesian graph and join the points plotted with a continuous curve.

2 Plot the graph of:

(a) $y = x^2 + \frac{1}{x}$ for $-3 \leq x \leq 3$ with intervals of 0.5.

(b) $y = \begin{cases} x^2 + x + 1 & : x \leq 1 \\ 3 - x & : x > 1 \end{cases}$ for $-3 \leq x \leq 4$ with intervals of 0.5.

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1 (a) $y = (1 - x^2)^{\frac{1}{3}}$

- (b) $(-5, -2.9), (-4, -2.5), (-3, -2), (-2, -1.4), (-1, 0), (0, 1), (1, 0), (2, -1.4), (3, -2), (4, -2.5), (5, -2.9)$

(c)

