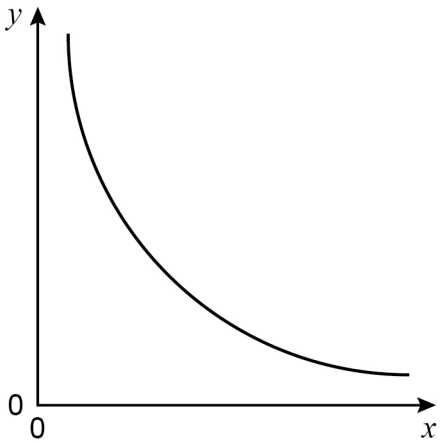
1 Here is a sketch of a graph.



Circle the equation of the graph.

k is a constant.

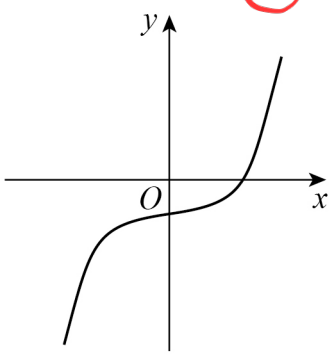
[1 mark]

$y = kx$ $y = k + x$ $y = k - x$ $y = \frac{k}{x}$ (1)

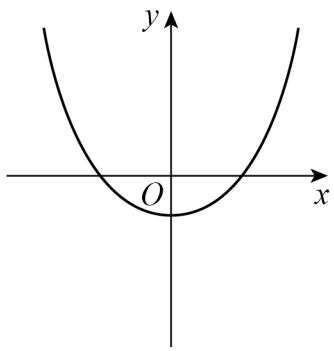
2 Circle the letter of the possible sketch graph of $y = x^3 - 4$ **[1 mark]**

cubic graph with y-intercept = -4

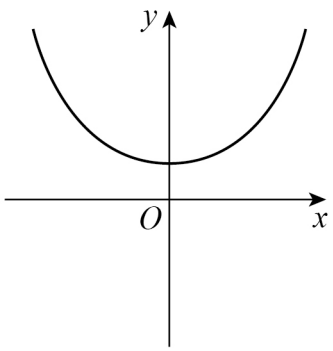
A (1)



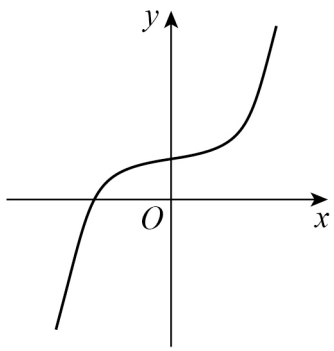
B



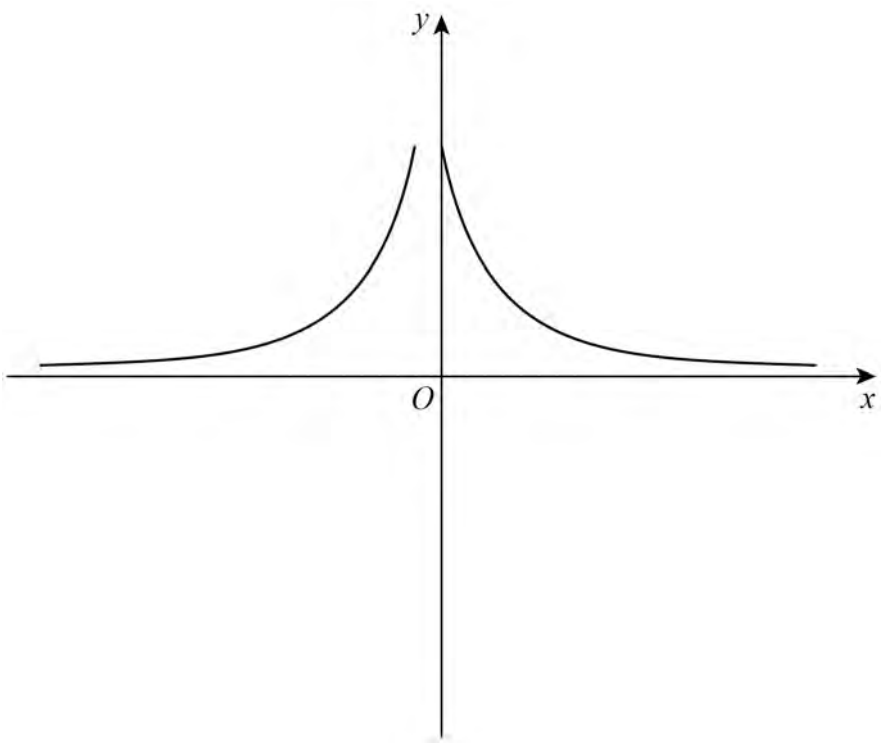
C



D



3 Erika tries to sketch the graph $y = \frac{1}{x}$ with $x \neq 0$



Make **two** different criticisms of her sketch.

[2 marks]

Criticism 1 The graph touches the y-axis (1)

Criticism 2 The graph on the left of y-axis should be below x-axis. (1)