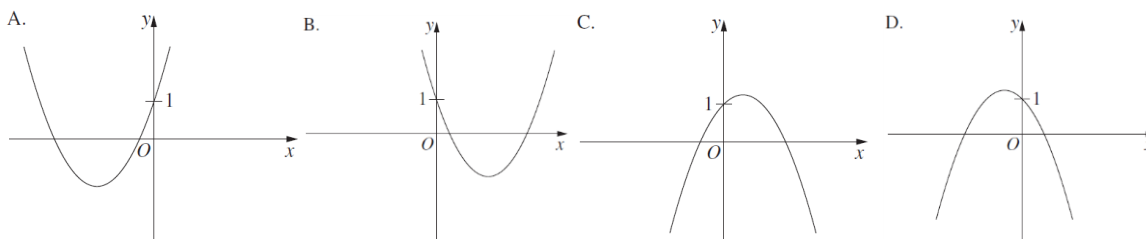


20 MA 5 Which of the following could represent the graph of $y = -x^2 + bx + 1$, where $b > 0$? **1**



C

$y = -x^2 + bx + 1$ is in the form $y = ax^2 + bx + c$.

As $a = -1 < 0$, the graph is concave down (could be C or D).

Axis of symmetry is $x = -\frac{b}{2a} = -\frac{b}{-2} = \frac{b}{2}$, and $b > 0$. This means the axis of symmetry is to the right of the y -axis.

State Mean:
0.6/1

* These solutions have been provided by [projectmaths](http://projectmaths.com.au) and are not supplied or endorsed by NESA.

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