



Quadratic Formulas - Purpose to Formula

1 What formula would help you find this?

Find the vertex (turning point) of the graph

A	$x = \frac{-b}{2a}$	B	$x = \frac{b}{4ac}$
C	$x = \frac{b^2}{4a}$		

2 What formula would help you find this? Find the number and type of roots (solutions)

A

B

$$\Delta = b^2 + 4ac \quad \Delta = b^2 - 4ac$$

3 What formula would help you find this?

Find the roots (solutions) of the equation

A	$x = \frac{b^2 \pm \sqrt{b^2 + 4ac}}{2a}$	B	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
C	$x = \frac{-b \pm \sqrt{b^2 - 2a}}{4ac}$		