

# Sketching quadratic graphs II

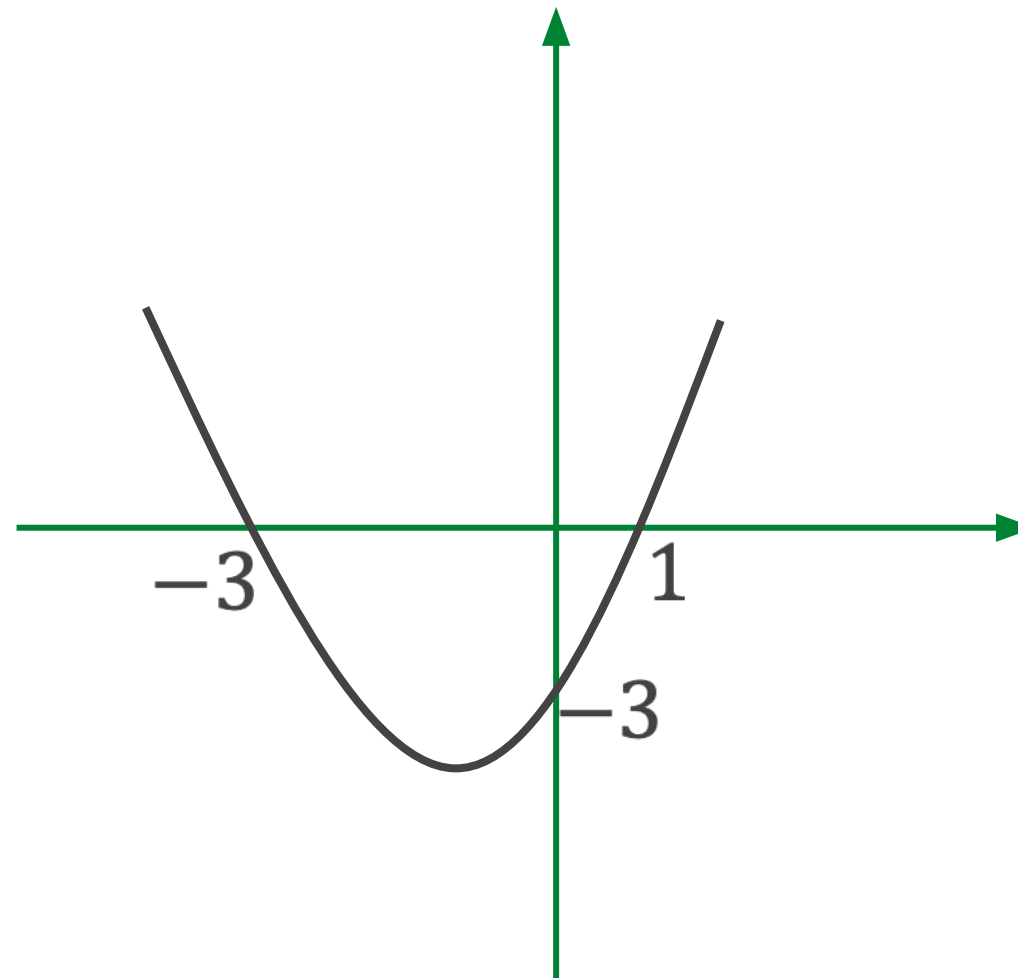
Mathematics

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## Try this

Antoni has sketched a graph below. Can you work out what the equation of the graph is?



# Independent task

1) Sketch the following quadratics, use the table to help you.

Equation	Factorised form	Roots	Y intercept	Shape
$y = x^2 + 7x + 12$	$y = (x + 4)(x + 3)$	$x = -4, x = -3$	(0,12)	U
$y = x^2 - x + 42$	$y = (x + 6)(x - 7)$	$x = -6, x = +7$		U
$y = -x^2 + 14x - 40$	$y = -(x - 4)(x - 10)$	$x = -4, \underline{\hspace{2cm}}$		
$y = x^2 - 18x + 81$			(0,81)	U
$y = x^2 - 64$				
$y = x^2 - 5x$				
$y = -x^2 - 5x$				
$y = -x^2 - 6x - 5$				
		$x = 4, x = -4$		n



# Explore

$(A, B)$  is the turning point. Can you find the missing points?

