

# Pick a card...

Quadratics of the form  $f(x) = ax^2 + bx + c$

<p>①</p> <p style="text-align: center;"><math>f(x) = \dots</math></p> <p style="text-align: center;">(Function in form <math>ax^2 + bx + c</math>)</p>	<p>②</p> <p style="text-align: center;">Graph of <math>y = f(x)</math></p>	<p>③</p> <p>The graph crosses the axes at <math>x = \dots\dots</math>, <math>x = \dots\dots</math> and <math>y = \dots\dots</math></p>																
<p>④</p> <p style="text-align: center;"><math>f(0) = \dots</math></p> <p style="text-align: center;"><math>f(1) = \dots</math></p> <p style="text-align: center;"><math>f(2) = \dots</math></p>	<p>⑤</p> <p style="text-align: center;"><math>f(x) = \dots (x \dots\dots\dots)^2 \dots\dots\dots</math></p> <p style="text-align: center;">(Function in completed square form)</p>	<p>⑥</p> <p style="text-align: center;">The <math>\dots\dots</math>est point on the graph is (<math>\dots\dots, \dots\dots</math>).</p> <p style="text-align: center;">The intercept on the y-axis is <math>\dots\dots</math></p>																
<p>⑦</p> <table border="1" style="margin: 10px auto; border-collapse: collapse; text-align: center;"> <tbody> <tr> <td style="padding: 5px;">x</td> <td style="padding: 5px;">-3</td> <td style="padding: 5px;">-2</td> <td style="padding: 5px;">-1</td> <td style="padding: 5px;">0</td> <td style="padding: 5px;">1</td> <td style="padding: 5px;">2</td> <td style="padding: 5px;">3</td> </tr> <tr> <td style="padding: 5px;">y</td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> </tr> </tbody> </table>	x	-3	-2	-1	0	1	2	3	y								<p>⑧</p> <p style="text-align: center;">The solution(s) of <math>f(x) = 0</math> is/are <math>\dots</math></p> <p style="text-align: center;"><math>f(-2) = \dots</math></p>	<p>⑨</p> <p style="text-align: center;"><math>f(x) = (\dots\dots\dots)(\dots\dots\dots)</math></p> <p style="text-align: center;">(Function in fully factorised form)</p>
x	-3	-2	-1	0	1	2	3											
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