

Finding a Turning Point by Completing the Square



REVISE THIS TOPIC

CHECK YOUR ANSWERS



1	The equation of a curve is $y = x^2 + 2x + 7$ By completing the square, working out the coordinates of the turning point. You must show your working. [3 marks]
	Answer (,)
2	The equation of a curve is $y = x^2 + 6x + 13$ By completing the square, working out the coordinates of the turning point. You must show your working. [3 marks]
	Answer (, ,)
3	The equation of a curve is $y = x^2 - 10x + 29$ By completing the square, working out the coordinates of the turning point. You must show your working. [3 marks]
1st	Answer (,)



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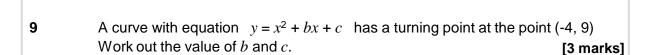
1	The equation of a curve is $y = x^2 - 2x - 7$ By completing the square, working out the coordinates of the turning point. You must show your working. [3 marks]
5	Answer (,) The equation of a curve is $y = x^2 + 12x + 40$ By completing the square, working out the coordinates of the turning point. You must show your working. [3 marks]
6	Answer (,) The equation of a curve is $y = x^2 - 3x + 4$ By completing the square, working out the coordinates of the turning point. You must show your working. [3 marks]
,	Answer (,) The equation of a curve is $y = x^2 - 5x - 9$ By completing the square, working out the coordinates of the turning point. You must show your working. [3 marks
	Answer (,)







8	A curve with equation $y = x^2 + bx + c$ has a turning point at the Work out the value of b and c .	ne point (4, -2) [3 marks]



b = ______ *c* = _____



A curve with equation $y = x^2 + bx + c$ has a turning point at the point (-3, -3) Work out the value of b and c. [3 marks]



