**Turning Points**

By completing the square, find the coordinates of the turning points of these quadratic graphs:

(a)

(b)

(c)

(d)

(e)

By completing the square, find the coordinates of the turning points of these quadratic graphs:

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(b)

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(d)

(e)

(a) A quadratic graph with equation has a turning point at . Find the values of and .

(b) A quadratic graph with equation has a turning point at . Find the values of and .

(a) A quadratic graph has a turning point at and passes through . Find the equation of the quadratic, giving your answer in the form .

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