

# QUADRATICS

## A-LEVEL PURE 1 PAST PAPER QUESTIONS

FOR ALL  
MATHKIND

### Question 1

Find the set of values of  $m$  for which the line with equation  $y = mx + 1$  and the curve with equation  $y = 3x^2 + 2x + 4$  intersect at two distinct points. [4]

[Taken from: 9709/13 May/June 2020]

$$3x^2 + 2x + 4 = mx + 1$$

$$3x^2 + 2x - mx + 4 - 1 = 0$$

$$3x^2 + (2 - m)x + 3 = 0$$

$$\Delta > 0$$

$$(2 - m)^2 - 4(3)(3) > 0$$

$$4 - 4m + m^2 - 36 > 0$$

$$m^2 - 4m - 32 > 0$$

$$(m - 8)(m + 4) > 0$$

$$m < -4, m > 8$$



### Question 2

Find the set of values of  $m$  for which the line with equation  $y = mx - 3$  and the curve with equation  $y = 2x^2 + 5$  do not meet. [3]

[Taken from: 9709/11 October/November 2020]

$$2x^2 + 5 = mx - 3$$

$$2x^2 + mx + 8 = 0$$

$$\Delta < 0$$

$$m^2 - 4(2)(8) < 0$$

$$m^2 - 64 < 0$$

$$(m - 8)(m + 8) < 0$$

$$-8 < m < 8$$



# 10 Maths Paper 4 9709 41 Questions

**Kathleen Armour**



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