



P1 – The Discriminant (From Edexcel IAL C12 Legacy)

Q1, (Jan 2014, Q8)

Find the range of values of k for which the quadratic equation

$$kx^2 + 8x + 2(k + 7) = 0$$

has no real roots.

(7)

Q2, (May 2014, Q10)

The equation

$$kx^2 + 4x + k = 2, \text{ where } k \text{ is a constant,}$$

has two distinct real solutions for x .

(a) Show that k satisfies

$$k^2 - 2k - 4 < 0$$

(4)

(b) Hence find the set of all possible values of k .

(3)

Q3, (May 2015, Q9)

The equation $x^2 + (6k + 4)x + 3 = 0$, where k is a constant, has no real roots.

(a) Show that k satisfies the inequality

$$9k^2 + 12k + 1 < 0$$

(3)

(b) Find the range of possible values for k , giving your boundaries as fully simplified surds.

(4)

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