

Quadratics Practice sheet

Q No 1:

P-1 May 1999

Solve the inequillity $x^2 < 3x + 4$

[3]

Q No 2:

P-1 Nov 2000

In the quadratic equation $kx^2 + 2(k+1)x + (k-1) = 0$, constant

i) Solve the equation in the case when $k = 5$.

[2]

ii) Find the set of values of k for which the equation has distinct real roots.

[2]

Q No 3:

P-1 May 2001

The function $f(x) = x^2 + 5x + 8$ is defined for the domain $x \geq a$, where a is constant.

i) Express $f(x)$ in the form $(x + p)^2 + q$.

[2]

ii) Find the smallest value of a for which $f(x)$ has an inverse.

[1]

iii) Find the domain f^{-1} corresponding to this value of a .

[2]

Q No 4:

P-1 Nov 2001

Solve the inequillity $|3 - 2x| > |x + 4|$

[4]

Q No 5:

P-1 May 2002

The line $x + 2y = 9$ intersects the curve $xy + 18 = 0$ at the points A and B . Find the coordinates of A and B .

[4]

Q No 6:

P-1 Oct 2003

Find the coordinates of the points of intersection of the line $y + 2x = 11$ and the curve $xy = 12$.

[4]

Q No 7:

P-1 May 2004

The curve $y = 9 - \frac{6}{x}$ and the line $y + x = 8$ intersect at two points. Find

(i) the coordinates of the two points,

[4]

Trands Packet Answers

DJ Losen



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