# A-LEVEL H2 MATHS 2011 — PAPER 1

## Question 1

[ Ans: $-2 < x < 1$ ]

$$\frac{x^2 + x + 1}{x^2 + x - 2} < 0$$

$$\frac{\left(x + \frac{1}{2}\right)^2 + \frac{3}{4}}{(x + 2)(x - 1)} < 0, \qquad x \neq -2, x \neq 1$$

$$\frac{1}{(x + 2)(x - 1)} < 0$$



$$\therefore -2 < x < 1$$

## Question 2

[ Ans: (i) $a = 0.215, b = -0.490, c = 3.281$ (ii) $\{x \in \mathbb{R} : x \geq 1.14\}$ ]

(i)  $f(-1.5) = 4.5$
$2.25a - 1.5b + c = 4.5$  (1)

$f(2.1) = 3.2$
$4.41a + 2.1b + c = 3.2$  (2)

$f(3.4) = 4.1$
$11.56a + 3.4b + c = 4.1$  (3)

Solving (1), (2) and (3) using GC,



$a = 0.215, b = -0.490, c = 3.281$

(ii)  $f(x) = 0.21498x^2 - 0.49010x + 3.2811$
$f'(x) = 0.42996x - 0.49010$

For $f(x)$ to be increasing, let $f'(x) \geq 0$

$0.42996x - 0.49010 \geq 0$
$x \geq 1.1399$

$\therefore \{x \in \mathbb{R} : x \geq 1.14\}$

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