

NOTE:

- If a candidate answers a question more than once, only mark the FIRST attempt.
- Consistent Accuracy applies in all aspects of the marking memorandum.

SECTION A**QUESTION 1**

(a)(1)	$px^2 + 2x - 3 = 0$ $x = \frac{(-2) \pm \sqrt{(2)^2 - 4(p)(-3)}}{2(p)}$ $x = \frac{-2 \pm \sqrt{4 + 12p}}{2p}$ $x = \frac{-2 \pm 2\sqrt{1 + 3p}}{2p}$ $x = \frac{-1 \pm \sqrt{1 + 3p}}{p}$	use of quadratic formula $x = \frac{-2 \pm \sqrt{4 + 12p}}{2p}$ simplified solution
(a)(2)	Non-real roots for: $1 + 3p < 0$ $p < -\frac{1}{3}$	$\Delta < 0$ $p < -\frac{1}{3}$ No marks for $\Delta > 0$
(b)	$\sqrt{x-2} + 4 = x$ $x^2 - 9x + 18 = 0$ $(x-2)(x-4)^2$ $x-2 = x^2 - 8x + 16$ $x=6 \text{ or } x=3$ n/v for $x=3$	Isolate surd $x^2 - 4x + 4$ $x^2 - 8x + 16$ factors answer with selection
(c)	$(x+3)(x-1) \geq 0$ Crit. values: $-3 ; 1$  $x \leq -3 \text{ or } x \geq 1$	Number line/graph $x \leq -3 \text{ or } x \geq 1$

2012 Mathematics Preparatory Examination September

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**Prof. Dr. Paulo Alberto da SILVA
PEREIRA**

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