

QUESTION 1

1.1 Solve for x :

1.1.1 $(2x+1)^2 - 4 = 0$

(3)

1.1.2 $4x^2 - 11 = -12x$ (Correct to TWO decimal places)

(3)

1.1.3 $15x - 4 < 9x^2$

(4)

1.1.4 $\sqrt{2x-2} - \sqrt{7-2x} = 1$

(5)

1.2 Solve the following equations simultaneously:

$a^2b^2 - 2ab - 8 = 0$ and $\log_2(a+5) = 3$

(5)

1.3 If $p = \frac{\sqrt{x+2}}{\sqrt{16-x^2}}$, for which values of x will p be real?

(4)

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M Mark



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