

QUESTION 1

1.1 Solve for x in each of the following:

1.1.1 $x^2 + x - 12 = 0$ (3)

1.1.2 $\sqrt{2x+1} = x-1$ (5)

1.1.3 $2^{x\sqrt{5}} = 2^{27}$ (4)

1.1.4 $x^2 - 2x - 8 < 0$ (3)

1.2 Given: $f(x) = 5x^2 + 6x - 7$

1.2.1 Solve for x if $f(x) = 0$ (correct to TWO decimal places). (4)

1.2.2 Hence, or otherwise, calculate the value of d for which $5x^2 + 6x - d = 0$ has equal roots. (3)

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