QUESTION 1

1.1   Solve for x:

  1.1.1 $x^2 - 9 = 0$ (2)

  1.1.2 $x - 5 + \dfrac{2}{x} = 0$ (correct to TWO decimal places) (4)

  1.1.3 $x = 1 + \sqrt{7 - x}$ (5)

  1.1.4 $x^2 + 2x - 15 \geq 0$ (3)

1.2   Solve simultaneously for x and y in:

  $y + 2x = 3$

  $y^2 - y = 3x^2 - 5x$ (6)

1.3   Simplify completely, WITHOUT the use of a calculator: $\sqrt[n]{\dfrac{10^n + 2^{n+2}}{5^{2n} + 4(5^n)}}$ (4)

[24]

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Anne Eadie

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