### QUESTION 1

1.1 Solve for x:

$$1.1.1 \quad x^2 - 9 = 0 \tag{2}$$

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

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

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

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: 
$$\sqrt[n]{\frac{10^n + 2^{n+2}}{5^{2n} + 4(5^n)}}$$
 (4) [24]

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