

**SECTION A****QUESTION 1**

(a) (1)  $(x+2)^2 = 3x(x-2)$   
 $x^2 + 4x + 4 = 3x^2 - 6x$  M (Expanding) A  
 $2x^2 - 10x - 4 = 0$  A  
 $x^2 - 5x - 2 = 0$   
 $x = \frac{5 \pm \sqrt{25+8}}{2}$  M (Sub into Quadratic formula)  
 $= 5,4 \text{ or } -0,4$  A

Answer only : Full marks

**P1D** (penalty for decimals) (5)

(2)  $x^2 - 9x \geq 36$   
 $x^2 - 9x - 36 \geq 0$   
 $(x-12)(x+3) \geq 0$  A  
 $\begin{array}{c} -3 \qquad \qquad \qquad 12 \\ | \qquad \qquad \qquad | \\ + \quad 0 \quad - \quad 0 \quad + \end{array}$  M (Critical values) A  
 $x \leq -3 \text{ or } x \geq 12$  A

Must include =

 $-3 \geq x \geq 12$  invalid

(4)

(3)  $3^x - 3^{x-2} = 72$   
 $3^x(1 - 3^{-2}) = 72$  M (Factorising)  
 $3^x\left(\frac{8}{9}\right) = 72$  A  
 $3^x = 72 \times \frac{9}{8}$   
 $= 3^4$  A  
 $x = 4$  A

(4)

(b)  $(2m-3)(n+5) = 0$   
 (1)  $(2 \times 1 - 3)(n+5) = 0$   
 $n = -5$  A  
 (2)  $m = \frac{3}{2}$  A  
 (3)  $m \in R$  A A Every number  $m$  is a solution.

(1)

(1)

(2)

**[17]****QUESTION 2**

(a)  $\sum_{k=2}^6 \frac{2^{k-1}}{k}$   
 $= \frac{2}{2} + \frac{4}{3} + \frac{8}{4} + \frac{16}{5} + \frac{32}{6}$  M (Expansion) A (5 terms)  
 $= \frac{193}{15}$  (12,9) A

Answer only : Full marks

**P1D**

(3)

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