

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 > x > 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

(1)

(2) $m = \frac{3}{2}$ A

(1)

(3) $m \in R$ A A Every number m is a solution.

(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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