

**QUESTION 1**

1.1 Solve for  $x$ :

1.1.1  $x^2 - 9 = 0$  (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  $x^2 + 2x - 15 \geq 0$  (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:  $\sqrt[n]{\frac{10^n + 2^{n+2}}{5^{2n} + 4(5^n)}}$  (4)

# Question Paper 1 Topics Chapter For Examination Mathematics Grade 12

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**The Education Gazette of the Province of the Cape of Good Hope** Cape of Good Hope (South Africa). Education Department,1980    **The City Record** New York (N.Y.),1903    *The Australian Mathematics Teacher* ,1993  
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