

QUESTION 1

1.1 Solve for x :

1.1.1 $x^2 + 5x - 6 = 0$ (3)

1.1.2 $4x^2 + 3x - 5 = 0$ (correct to TWO decimal places) (3)

1.1.3 $4x^2 - 1 < 0$ (3)

1.1.4 $\left(\sqrt{\sqrt{32+x}}\right)\left(\sqrt{\sqrt{32-x}}\right) = x$ (4)

1.2 Solve simultaneously for x and y :

$y + x = 12$ and $xy = 14 - 3x$ (5)

1.3 Consider the product $1 \times 2 \times 3 \times 4 \times \dots \times 30$.

Determine the largest value of k such that 3^k is a factor of this product. (4)

[22]

QUESTION 2

2.1 Given the quadratic sequence: 321 ; 290 ; 261 ; 234 ;

2.1.1 Write down the values of the next TWO terms of the sequence. (2)

2.1.2 Determine the general term of the sequence in the form $T_n = an^2 + bn + c$. (4)

2.1.3 Which term(s) of the sequence will have a value of 74? (4)

2.1.4 Which term in the sequence has the least value? (2)

2.2 Given the geometric series: $\frac{5}{8} + \frac{5}{16} + \frac{5}{32} + \dots = K$

2.2.1 Determine the value of K if the series has 21 terms. (3)

2.2.2 Determine the largest value of n for which $T_n > \frac{5}{8192}$ (4)

[19]

Grade 12maths Exemplar Paper1

AW Rasmussen



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