

QUESTION 11.1 Solve for x :

1.1.1 $(x - 2)(4 + x) = 0$ (2)

1.1.2 $3x^2 - 2x = 14$ (correct to TWO decimal places) (4)

1.1.3 $2^{x+2} + 2^x = 20$ (3)

1.2 Solve the following equations simultaneously:

$x = 2y + 3$

$3x^2 - 5xy = 24 + 16y$ (6)

1.3 Solve for x : $(x - 1)(x - 2) < 6$ (4)

1.4 The roots of a quadratic equation are: $x = \frac{3 \pm \sqrt{-k - 4}}{2}$
For which values of k are the roots real? (2)
[21]

QUESTION 2Given the arithmetic series: $2 + 9 + 16 + \dots$ (to 251 terms).

2.1 Write down the fourth term of the series. (1)

2.2 Calculate the 251st term of the series. (3)

2.3 Express the series in sigma notation. (2)

2.4 Calculate the sum of the series. (2)

2.5 How many terms in the series are divisible by 4? (4)
[12]

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Lingsheng Yao



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web he concluded that at a constant pressure the volume of the gas would expand at a particular rate for each degree of temperature rise that being 1 267 per degree in 1874 victor regnault obtained better experimental results showing this number to be 1 273 and concluded that the pressure would approach zero at 1 273 degrees c

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web the volume of 1 00 mol 1 00 mol of any gas at stp standard temperature 273 15 k and pressure 1 atm is measured to be 22 414l 22 414 l we can substitute 101 325kpa 101 325 kpa for pressure 22 414 l 22 414 l for volume and 273 15 k 273 15 k for temperature into the ideal gas equation and solve for r r

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