GR 12 MATHS - EXAM MEMOS

NATIONAL NOV 2014 PAPER 1

ALGEBRA AND EQUATIONS AND INEQUALITIES (21)

$$\therefore x = \frac{-(-2) \pm \sqrt{(-2)^2 - 4(3)(-54)}}{2(3)}$$

$$\therefore x = \frac{2 \pm \sqrt{5/2}}{6}$$

$$\therefore = 2.52 \text{ or } -1.85 \blacktriangleleft$$

 $1.12 \cdot 3x^2 \cdot 2x \cdot 14 = 0$



1.1.3
$$2^{x+2} + 2^x = 20$$

 $\therefore 2^x, 2^2 + 2^x = 20$
 $\therefore 2^x, 4^x + 1 = 20$
 $\therefore 2^x = 14$
 $\therefore x = 2 \le 1$

1.2 $x = 2y + 3 \dots 0$

$$3x^2 - 5xy = 24 + 16y \dots \Theta$$

 $\Theta = \Theta : \therefore 3(2y + 3)^2 - 5y(2y + 3) = 24 + 16y = 0$
 $\therefore 3(4y^2 + 12y + 9) - 10y^2 - 15y - 24 - 16y = 0$
 $\therefore 12y^2 + 36y + 27 - 10y^2 - 15y - 24 - 16y = 0$
 $\therefore 2y^2 + 5y + 3 = 0$
 $\therefore (2y + 3)(y + 1) = 0$
 $\therefore 2y + 3 = 0 \text{ or } y + 1 = 0$
 $\therefore 2y + 3 = 0 \text{ or } y + 1 = 0$
 $\therefore 2y + 3 = 0 \text{ or } y + 1 = 0$
 $\therefore 2y + 3 = 0 \text{ or } y + 1 = 0$

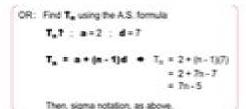
9: For
$$y = -\frac{3}{2}$$
: $x = 2\left(-\frac{3}{2}\right) + 3 = -3 + 3 = 0$
5: For $y = -1$: $x = 2\left(-1\right) + 3 = -2 + 3 = 1$
c: The solution: $\left(0; -\frac{3}{2}\right)$ or $\left(1; -1\right) < 0$

PATTERNS AND SEQUENCES [31]

4-420 420

0424

(4) ○ (1) ★ (4) ★ (



2.4 S_n =
$$\frac{n}{2}$$
(a + T_n), were n = 251; a = 2; T_n = 1752
= S₂₅₁ = $\frac{251}{2}$ (2 + 1752)
= 220 127 <

OR:

$$S_n = \frac{n}{2} [2n + (n - 1)d]$$
, were $n = 251$; $n = 2$; $d = 7$
:: $S_{251} = \frac{251}{2} [2(2) + (251 - 1)(7)]$
= 220 127 <

OR: By impection, after 16 every 4th term is divisible by 4.

So, imagining T₁ to be inserted at the start, determine the number of groups of 4 terms up to T₂₀₁.

The number of groups =
$$\frac{262}{4}$$
 ... $l = 251$... 63 terms divisible by 4. 4

- a = 63

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