GR 12 MATHS – EXAM MEMOS

NATIONAL NOV 2014 PAPER 1

ALGEBRA AND EQUATIONS AND INEQUALITIES (21)

1.12
$$3x^2 - 2x - 14 = 0$$

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

$$\therefore x = \frac{2 \pm \sqrt{3/2}}{6}$$

$$\therefore = 2,52 \text{ or } -1,85 \le$$



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

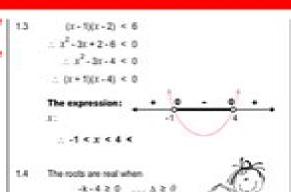
 $\therefore 2^x, 2^2 + 2^x = 20$
 $\therefore 2^x (4 + 1) = 20$
 $\Rightarrow 5$ $\Rightarrow 2^x = 14$
 $\Rightarrow x = 2 \le 1$

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

$$3x^2 - 5xy = 24 + 16y \dots 6$$

0 in **6**: $\therefore 3(2y + 3)^2 - 5y(2y + 3) = 24 + 16y = 0$
 $\therefore 3(4y^2 + 12y + 9) - 10y^2 - 15y - 24 - 16y = 0$
 $\therefore 12y^2 + 38y + 27 - 10y^2 - 15y - 24 - 16y = 0$
 $\therefore 2y^2 + 5y + 3 = 0$
 $\therefore (2y + 3)(y + 1) = 0$
 $\therefore 2y + 3 = 0 \text{ or } y + 1 = 0$
 $\therefore 2y + 3 = 0 \text{ or } y + 1 = 0$
 $\therefore 2y + 3 = 0 \text{ or } y + 1 = 0$

0: For
$$y = -\frac{3}{2}$$
: $x = 2(-\frac{3}{2}) + 3 = -3 + 3 = 0$
8. For $y = -1$: $x = 2(-1) + 3 = -2 + 3 = 1$
 \therefore The solution: $(0; -\frac{3}{2})$ or $(1; -1) < 0$





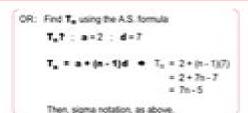
PATTERNS AND SEQUENCES [31]

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(4) ○ (1) ★ (4) ★ (

2.3
$$\sum_{n=1}^{20} (2n-8) < \dots \text{ if you found } T_n \text{ in 2.2}$$

$$[OR: \nabla_{(17-5)} < \dots]$$



2.4 S_n =
$$\frac{n}{2}$$
(a + T_n), were m = 251; a = 2; T_n = 1 752
... S₂₅₁ = $\frac{251}{2}$ (2 + 1 752)
= 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 T_{II} to be inserted at the start, determine the number of groups of 4 terms up to T₂₀₁.

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

- a = 63

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C Cleary

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and children were feeling its effects They cried over math homework so mystifying their parents could not help them even in elementary school They read motley assortments of informational text instead of classic literature They dreaded the high stakes tests in unfamiliar formats that were increasingly controlling their classrooms. How did this latest and most sweeping reform of American education come in mostly under the radar Joy Pullmann started tugging on a thread of reports from worried parents and frustrated teachers and it led to a big tangle of history and politics intrigue and arrogance She unwound it to discover how a cabal of private foundation honchos and unelected public officials cooked up a set of rules for what American children must learn in core K 12 classes and how the Obama administration pressured states to adopt them Thus a federalized education scheme took root despite legal prohibitions against federal involvement in curriculum Common Core and its testing regime were touted as an absolute game changer in public education yet the evidence so far suggests that kids are actually learning less under it Why then was such a costly and disruptive agenda imposed on the nation s schools Who benefits And how can citizens regain local self governance in education so their children's minds will be fed a more nourishing intellectual diet and be protected from the experiments of emboldened bureaucrats The Education Invasion offers answers and remedies The Irish Church directory ,1898 Math Speed Tests, Book 1: Grades 1-3 Gunter Schymkiw, 2000-02 Provides students with opportunities to improve their rapid calculation skills with essential addition and **Scott Foresman-Addison Wesley Mathematics** ,2008 subtraction facts Power and the Engineer ,1898 Short programme, 1900 Dublin city, univ, Trinity coll,1900 The Annalist ,1917 Joint Volumes of Papers Presented to the Legislative Council and Legislative Assembly New South Wales. Parliament, 1907 Includes various departmental reports and reports of commissions Cf Gregory Serial publications of foreign governments 1815 1931 Ordinances of the University [of Cambridge] to the End of the Easter Term 1914 University of Cambridge, 1914 The Leatherneck .1928 International Catalogue of Scientific Literature [1901-14]. ,1902 Parliamentary Papers Great Britain. Parliament. House of Commons, 1904 **American Men of Science** James McKeen Cattell, Jagues Cattell, 1921 **Minutes and Votes and** Proceedings of the Parliament, with Papers Presented to Both Houses Western Australia. Parliament, 1925

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