

GR 12 MATHS – EXAM MEMOS

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NATIONAL NOV 2014 PAPER 1

► ALGEBRA AND EQUATIONS AND INEQUALITIES [21]

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

$$\begin{aligned} \therefore x-2 &= 0 & \text{or} & & 4+x &= 0 \\ \therefore x &= 2 & & & x &= -4 \end{aligned}$$

1.1.2 $3x^2 - 2x - 14 = 0$

$$\therefore x = \frac{-(-2) \pm \sqrt{(-2)^2 - 4(3)(-14)}}{2(3)}$$

$$\therefore x = \frac{2 \pm \sqrt{172}}{6}$$

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



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

$$\therefore 2^x \cdot 2^2 + 2^x = 20$$

$$\therefore 2^x (4 + 1) = 20$$

$$+5) \quad \therefore 2^x = 14$$

$$\therefore x = 2 <$$

1.2 $x = 2y + 3 \quad \dots \textcircled{1}$

$$3x^2 - 5xy = 24 + 16y \quad \dots \textcircled{2}$$

$$\textcircled{1} \text{ in } \textcircled{2}: \therefore 3(2y+3)^2 - 5y(2y+3) = 24 + 16y$$

$$\therefore 3(4y^2 + 12y + 9) - 10y^2 - 15y - 24 - 16y = 0$$

$$\therefore 12y^2 + 36y + 27 - 10y^2 - 15y - 24 - 16y = 0$$

$$\therefore 2y^2 + 5y + 3 = 0$$

$$\therefore (2y + 3)(y + 1) = 0$$

$$\therefore 2y + 3 = 0 \text{ or } y + 1 = 0$$

$$\therefore 2y = -3 \quad \therefore y = -1$$

$$\therefore y = -1$$

$$\textcircled{1}: \text{ For } y = -\frac{3}{2}: x = 2\left(-\frac{3}{2}\right) + 3 = -3 + 3 = 0$$

$$\& \text{ For } y = -1: x = 2(-1) + 3 = -2 + 3 = 1$$

$$\therefore \text{The solution: } \left(0, -\frac{3}{2}\right) \text{ or } (1, -1) <$$

1.3 $(x-1)(x-2) < 6$

$$\therefore x^2 - 3x + 2 - 6 < 0$$

$$\therefore x^2 - 3x - 4 < 0$$

$$\therefore (x+1)(x-4) < 0$$

The expression:

 $x:$

$$\therefore -1 < x < 4 <$$



1.4 The roots are real when

$$-b-4 \geq 0 \quad \dots \Delta \geq 0$$

$$\therefore -b \geq 4$$

$$+(-1) \quad \therefore b \leq -4 <$$



► PATTERNS AND SEQUENCES [31]

2. $2 + 9 + 16 + \dots$ (to 251 terms)

2.1 $T_n = 2n - 5 <$

2.2 A.S.: $T_{251}?$: $a = 251$: $a = 2$: $d = 7$

$$T_n = a(n-1)d + T_1 \quad \therefore T_{251} = 2 + (251-1)(7) = 1752 <$$

$$\text{OR: It is a linear sequence: } T_n = an + b$$

$$\text{where } a = 7 \text{ and } b = T_1 - 5$$

$$\therefore T_n = 7n - 5$$

$$\therefore T_{251} = 7(251) - 5 = 1752 <$$

2.3 $\sum_{n=1}^{251} (7n - 5) < \dots$ if you found T_n in 2.2

$$\text{OR: } \sum_{n=1}^{251} (7n - 5) <$$


OR: Find T_n using the A.S. formula

$$T_n? : a = 2 : d = 7$$

$$T_n = a + (n-1)d \quad \therefore T_n = 2 + (n-1)(7) = 2 + 7n - 7 = 7n - 5$$

Then, sigma notation, as above.

2.4 $S_n = \frac{n}{2}(a + T_n)$, where $n = 251$: $a = 2$: $T_n = 1752$

$$\therefore S_{251} = \frac{251}{2}(2 + 1752) = 220\,127 <$$

OR:

$$S_n = \frac{n}{2}[2a + (n-1)d]$$
, where $n = 251$: $a = 2$: $d = 7$

$$\therefore S_{251} = \frac{251}{2}[2(2) + (251-1)(7)] = 220\,127 <$$

2.5 $2 + 9 + 16 + 25 + 36 + 49 + 64 + 81 + 100 + \dots$

Consider the series: $16 : 49 : 100 : \dots$

$$a? : T_n = 1752 \text{ (divisible by 4)} : a = 16 : d = 28$$

$$a + (n-1)d = T_n \quad \therefore 16 + (n-1)(28) = 1752$$

$$\therefore (n-1)(28) = 1736$$

$$\therefore n-1 = 62$$

$$\therefore n = 63$$

$$\therefore 63 \text{ terms} <$$

OR: By inspection, after 16 every 4th term is divisible by 4. So, imagining T_1 to be inserted at the start, determine the number of groups of 4 terms up to T_{251} .

$$\text{The number of groups} = \frac{252}{4} \dots 1 + 251 = 63$$

$$\therefore 63 \text{ terms divisible by 4} <$$

EXAM MEMOS: PAPER 1

Maths Guideline Grade 12 2014

Katrin Zwirglmaier



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students have ever been good at factoring trinomials performance on this skill seems to be decreasing This suggests that while more students are completing advanced mathematics courses in high school these courses are not helping in the area of factoring trinomials Finally there are limitations to using NAEP as a measure of student performance on the Common Core State Standards To the extent that NAEP can be used however the NAEP data show a substantial gap between expectations and performance

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