GR 10 MATHS – EXAM MEMOS

NATIONAL EXEMPLAR PAPER 1

1.1.1 $(m - 2n)(m^2 - 6mn - n^2)$

$= m^3 - 6m^2n - mn^2$
$\quad - 2m^2n + 12mn^2 + 2n^3$
$= m^3 - 8m^2n + 11mn^2 + 2n^3$ ◄

1.1.2 $\dfrac{x^2+1}{x^2-x+1} - \dfrac{4x^2-3x-1}{4x+1}$

$= \dfrac{(x+1)(x^2-x+1)}{(x^2-x+1)} - \dfrac{(4x+1)(x-1)}{(4x+1)}$

$= (x+1) - (x-1)$

$= x + 1 - x + 1$

$= 2$ ◄

1.2.1 $6x^2 - 7x - 20$

$= (2x - 5)(3x + 4)$ ◄

1.2.2 $a^2 + a - 2ab - 2b$

$= a(a + 1) - 2b(a + 1)$
$= (a + 1)(a - 2b)$ ◄

1.3 $49 < 51 < 64$ … *i.e. 51 lies between 49 and 64*

$\therefore 7 < \sqrt{51} < 8$ … *taking the square root*

i.e. $\sqrt{51}$ lies between 7 and 8 ◄

1.4 Let $x = 0{,}\dot{2}4\dot{5}$

$\therefore x = 0{,}245\,245\ldots$ … ❶

$\times 1\,000$: $\therefore 1\,000x = 245{,}245\,245\ldots$ … ❷

❷ - ❶: $\therefore 999x = 245$

$\therefore x = \dfrac{245}{999}$

… *i.e. x can be expressed as $\frac{a}{b}$ where a & $b \in \mathbb{Z}$*

$\therefore x$ is a rational number

2.1.1 $x^2 - 4x = 21$

$\therefore x^2 - 4x - 21 = 0$

$\therefore (x + 3)(x - 7) = 0$

$\therefore x + 3 = 0$ or $x - 7 = 0$

$\therefore x = -3$ ◄ $\quad \therefore x = 7$ ◄

2.1.2 $3x^{\frac{5}{4}} = 96$

$\div 3$: $\therefore x^{\frac{5}{4}} = 32$

$\therefore \left(x^{\frac{5}{4}}\right)^{\frac{4}{5}} = (2^5)^{\frac{4}{5}}$

$\therefore x = 2^4$

$\therefore x = 16$ ◄

2.1.3 $\dfrac{2\sqrt{x}}{3S} = R$

$\times 3S$: $\therefore 2\sqrt{x} = 3SR$

$\div 2$: $\therefore \sqrt{x} = \dfrac{3SR}{2}$

Square: $\therefore x = \dfrac{9S^2R^2}{4}$ ◄

2.2 $6q + 7p = 3$ … ❶

$2q + p = 5$ … ❷

❷ $\times 3$: $6q + 3p = 15$ … ❸

❸ - ❶: $\therefore 4p = -12$

$\therefore p = -3$ ◄

❷: $\therefore 2q - 3 = 5$

$\therefore 2q = 8$

$\therefore q = 4$ ◄

3.1.1 The 1st 3 terms:

$3(3) + 1 \;;\; 2(3) \;;\; 3(3) - 7$

$\therefore 10 \;;\; 6 \;;\; 2$ ◄

3.1.2 The difference is -4

$\therefore$ In $T_n = an + b$: $a = -4$

& $T_0 = b = 14$ … *the term before the 1st term*

$\therefore T_n = -4n + 14$ ◄

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