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

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

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

$= x + 1 - x + 1$

$= 2$ ◄

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

$\therefore x = 0,245\,245\ldots$ ... ❶

$\times 1\,000) \quad \therefore 1\,000x = 245,245\,245\ldots$ ... ❷

❷ − ❶: $\quad \therefore 999x = 245$

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

... 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 $x^2 - 4x = 21$

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

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

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

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

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

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

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

$\therefore x = 2^4$

$\therefore x = 16$ ◄

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

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

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

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

2.2 $6q + 7p = 3$ ... ❶

$2q + p = 5$ ... ❷

❷ × 3: $\quad 6q + 3p = 15$ ... ❸

❶ − ❸: $\quad \therefore 4p = -12$

$\therefore p = -3$ ◄

❷: $\quad \therefore 2q - 3 = 5$

$\therefore 2q = 8$

$\therefore q = 4$ ◄

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 $T_n = an + b: \; a = -4$

$\&\; T_0 = b = 14 \quad$ ... *the term before the 1st term*

$\therefore T_n = -4n + 14$ ◄

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rotational kinematics in the section on uniform circular motion we discussed motion in a circle at constant speed and therefore constant angular velocity however there are times when angular velocity is not constant rotational motion can speed up

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evaluate problem solving strategies for rotational kinematics just by using our intuition we can begin to see how rotational quantities like θ ω and α are related to one another for example if a motorcycle wheel has a large angular acceleration for a fairly long time it ends up spinning rapidly and rotates through many revolutions

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