

GR 10 MATHS – EXAM MEMOS

NATIONAL EXEMPLAR PAPER 1

1.1.1 $(m - 2n)(m^2 - 6mn - 5n^2)$

$$= m^3 - 6m^2n - mn^2 - 2m^2n + 12mn^2 + 2n^3$$

$$= m^3 - 8m^2n + 11mn^2 + 2n^3 \quad \blacktriangleleft$$

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

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

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

$$= x+1 - x+1$$

$$= 2 \quad \blacktriangleleft$$

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

$$= (2x - 5)(3x + 4) \quad \blacktriangleleft$$



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

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

$$= (a+1)(a-2b) \quad \blacktriangleleft$$

1.3 $49 < 51 < 64 \quad \dots$ i.e. 51 lies between 49 and 64

$$\therefore 7 < \sqrt{51} < 8 \quad \dots$$
 taking the square root

$$\text{i.e. } \sqrt{51} \text{ lies between 7 and 8} \quad \blacktriangleleft$$

1.4 Let $x = 0,24\bar{5}$

$$\therefore x = 0,245245\dots \quad \dots \textcircled{1}$$

$$\times 1000) \therefore 1000x = 245,245245\dots \quad \dots \textcircled{2}$$

$$\textcircled{2} - \textcircled{1}: \therefore 999x = 245$$

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

\dots i.e. x can be expressed as $\frac{a}{b}$ where

$$a \in \mathbb{Z} \text{ and } b \in \mathbb{Z}$$

$\therefore x$ is a rational number

2.1.1 $x^2 - 4x = 21$

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

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

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

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

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

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

$$\therefore \left(x^{\frac{5}{3}}\right)^{\frac{3}{5}} = \left(32\right)^{\frac{3}{5}}$$

$$\therefore x = 2^4$$

$$\therefore x = 16 \quad \blacktriangleleft$$



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

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

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

$$\text{Square:} \therefore x = \frac{9S^2R^2}{4} \quad \blacktriangleleft$$

2.2 $6q + 7p = 3 \quad \dots \textcircled{1}$

$$2q + p = 5 \quad \dots \textcircled{2}$$

$$\textcircled{2} \times 3: 6q + 3p = 15 \quad \dots \textcircled{3}$$

$$\textcircled{1} - \textcircled{3}: \therefore 4p = -12$$

$$\therefore p = -3 \quad \blacktriangleleft$$

$$\textcircled{2}: \therefore 2q - 3 = 5$$

$$\therefore 2q = 8$$

$$\therefore q = 4 \quad \blacktriangleleft$$



3.1.1 The 1st 3 terms:

$$3(3) + 1 : 2(3) : 3(3) - 7$$

$$\therefore 10 : 6 : 2 \quad \blacktriangleleft$$

3.1.2 The difference is -4

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

$$\& T_0 = b = 14 \quad \dots$$
 the term before the 1st term

$$\therefore T_n = -4n + 14 \quad \blacktriangleleft$$

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M Lipman



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