

# GR 10 MATHS – EXAM MEMOS

**M**  
**2**

## NATIONAL EXEMPLAR PAPER 1

$$1.1.1 \quad (m-2n)(m^2-6mn+n^2)$$

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

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

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

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

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

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

$$= 2 \quad \leftarrow$$

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

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

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

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

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

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

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

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



$$1.4 \quad \text{Let } x = 0.\dot{2}4\dot{5}$$

$$\therefore x = 0.245245\dots \quad \dots \text{ ①}$$

$$\times 1000) \therefore 1000x = 245.245245\dots \quad \dots \text{ ②}$$

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

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

$\dots$  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

$$2.1.1 \quad x^2-4x=21$$

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

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

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

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

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

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

$$\therefore \left(x^{\frac{5}{3}}\right)^{\frac{3}{5}} = (2^5)^{\frac{3}{5}}$$

$$\therefore x = 2^3$$

$$\therefore x = 8 \quad \leftarrow$$



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

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

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

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

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

$$2q+p=5 \quad \dots \text{ ②}$$

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

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

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

$$\text{②}: \therefore 2q-3=5$$

$$\therefore 2q=8$$

$$\therefore q=4 \quad \leftarrow$$



$$3.1.1 \quad \text{The } 1^{\text{st}} \text{ 3 terms:}$$

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

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

$$3.1.2 \quad \text{The difference is } -4$$

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

$$\& T_0 = b = 14 \quad \dots \text{ the term before the } 1^{\text{st}} \text{ term}$$

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

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**Christian Drosten**



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