- Mr. Puneet Chopra purchased LED T.V. for the taxable value of ₹ 92000. He sold it for ₹ 98000, the rate of GST is 12%. Find the input tax credit of Mr. Puneet Chopra. What is the amount of GST payable.
  - (a) ₹ 720 (b) ₹ 820 (c) ₹ 920 (d) ₹ 1020
- 2. Kalpana Chaudhary has a recurring deposit account with a nationalised bank for a period
  - of 2 year. If the bank pay interest at the rate of 6% per annum and the monthly installment is ₹ 1000. Find the interest earned in 2 year.
  - (a) 1000 (b) 1200
  - (c) 1400 (d) 1500
- **3.** Solve the inequation  $|3x 2| \le \frac{1}{2}$ 
  - (a)  $\frac{1}{4} \le x \le \frac{-1}{4}$  (b)  $\frac{1}{4} \le x \le \frac{2}{-3}$
  - (c)  $\frac{1}{2} \le x \le \frac{5}{6}$  (d) None of these
- **4.** From the inequation find the minimum value of  $x 1 \le 5$   $x \in \mathbb{N}$ 
  - (a) 1 (b) 2
  - (c) 3 (d) 4

5. Determine the nature of root

$$x^2 - 7x + 12 = 0$$

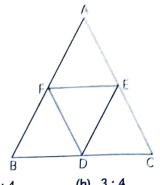
- (a) real root
- (b) imanginary
- (c) real and unequal
- (d) real and equal
- **6.** Find the fourth proportion of the following  $6x^2y : 5x^2y :: 30 : t$ 
  - (a) 10 (b) 15
  - (c) 20 (d) 25
- 7.  $\sqrt{\frac{x}{x+16}} = \frac{25}{12} \sqrt{\frac{x+16}{x}} : x \neq -16$

Find the value of x

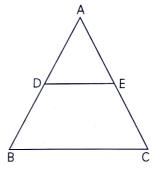
- (a)  $\frac{4}{3}$
- (b) 3
- $\frac{7}{3}$
- **8.** Find the value of  $\frac{m^2 + n^2}{m^2 n^2}$ , when  $\frac{7m + 2n}{7m 2n} = \frac{5}{3}$ 
  - (a) 113/15
- (b) 117/17
- c) 119/11 (d) None of these

- Find the value of k if x 1 = 0 is a factor of  $x^3 + 2x^2 - kx + 10$ 
  - (a) 12
- (b) 13
- (c) 14
- (d) 15
- If  $f(x) = 2x^2 + kx 6$  leaves a remainder 3 when divided by (x + 3). Find the value k.
  - (a) 5
- (b) 4
- (c) 3
- (d) 2
- Find the value of  $A^3$  when  $A = \begin{bmatrix} 1 & 3 \\ 2 & 4 \end{bmatrix}$ 
  - (a)  $\begin{bmatrix} 54 & 81 \\ 118 & 37 \end{bmatrix}$  (b)  $\begin{bmatrix} 31 & 22 \\ 64 & 82 \end{bmatrix}$
  - (c)  $\begin{bmatrix} 110 & 112 \\ 38 & 74 \end{bmatrix}$  (d)  $\begin{bmatrix} 37 & 81 \\ 54 & 118 \end{bmatrix}$
- **12.** If  $A = \begin{bmatrix} 1 & -1 \\ 2 & -2 \end{bmatrix}$  and  $B = \begin{bmatrix} 4 & 7 \\ 8 & -7 \end{bmatrix}$ . Find the
  - value of 2A + B
  - (a)  $\begin{bmatrix} 6 & 5 \\ 12 & -11 \end{bmatrix}$  (b)  $\begin{bmatrix} -11 & 5 \\ 12 & 6 \end{bmatrix}$
  - (c)  $\begin{bmatrix} 6 & 5 \\ -11 & 12 \end{bmatrix}$  (d)  $\begin{bmatrix} 6 & 15 \\ -11 & 5 \end{bmatrix}$
- 13. In the following A.P.
  - 2,  $\square$ , 26. Find the missing term
  - (a) 14
- (b) 16
- (c) 18
- (d) 20

- 14. Find the 9th term of the A.P. 2, 7, 12.
  - (a) 36
- (b) 38
- (c) 40
- (d) 42
- D, E, F are the midpoint of the side BC, CA and AB respectively of the ABC. Determine the ratio of the area of the ADEF and Alex



- (a) 1:4
- (b) 3:4
- (c) 5:7
- (d) 7:9
- From the given figure DE || BC and  $\frac{AD}{DB} = \frac{2}{3}$ , calculate



- (a) 14:23
- (b) 17:29
- (c) 5:17
- (d) 4:24

## SECTION - B [12 Marks]

 $(6Q \times 2M)$ 

- **17.** Interest paid formula is
  - (a)  $P \times n + I$
  - **P×R×T** (b)
  - (c)  $P \times \frac{n(n+1)}{2+12} \times \frac{r}{100}$
  - (d) None of these
- - 10% GST means (a) 5% goes to centre
    - (b) 5% goes to state
    - (c) Both (a) and (b)
    - (d) None of these
- If a is a positive real no. then the value of  $|x-a| \le r$

- (a)  $a-r \le x \le a+a$
- (b)  $x \le -a$
- (c)  $-a \le x \le a$
- (d)  $x \ge a$
- **20.** Comparison ratio a:b>c:d then .........
  - (a) ad < bc
- (b) ad = bc
- (c) ad > bc
- (d) None of these
- Which properties belong to the matrix

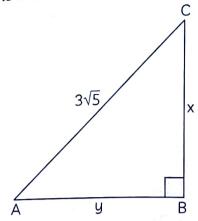
$$A(BC) = (AB)C$$

- (a) Commutative (b) Associative
- (c) Distribution (d) Cancellation
- 22. For what value of P is the polynomial g(x) is a factor
  - $f(x) = 5x^3 + Px^2 8x 12, g(x) = x 1$
  - (a) 10
- (b) 12
- (c) 14
- (d) 15

## SECTION - C [12 Marks]

 $(3Q \times 4M)$ 

The hypotenuese of right triangle is  $3\sqrt{5}$  cm. If the smaller side is tripled and the larger 23. side is doubled the new hypotenuese will be:



- Find the length side of AB (A)
  - (a) 6

(b) 7

(c) 8

- (d) 9
- Find the length of the side BC (B)
  - (a) 2

(b) 3

(c) 4

- (d) 5
- (C) Find the area of triangle
  - (a) 0

(b) 9

(c) 10

- (d) 11
- Triangle are (D)
  - (a) Scalane
  - (b) Isosceles
  - (c) Equalitarial
  - (d) None of the abvoe
- **24.**  $n^{\text{th}}$  of an A.P. is 4 and common difference is 2 at the sum of n terms is (- 14) then
  - First term of the A.P. (A)
    - (a) -8

- (b) -9
- (c) -10
- (d) 11
- Find the value of n(B)
  - (a) 6

(b) 7

(c) 8

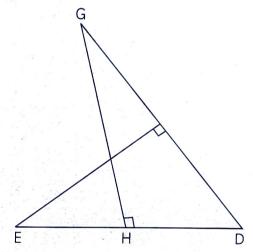
(d) 9

- Find the value of 8<sup>th</sup> term of the A.P. (C)
  - (a) 5

(b) 4

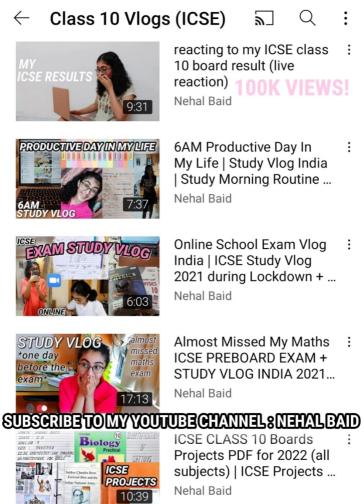
(c) 6

- (d) 7
- Find the value of sum of first 4<sup>th</sup> term (D) of the A.P.
  - (a) -5
- (b) 10
- (c) 15
- (d) 20
- In the given figure  $\angle GHE = \angle DFE = 90^\circ$ , DH = 8 cm, DF = 12 cm, DG = (3x - 1) cm and DE = (4x + 2) cm. Find the



- (A)  $\angle GHD = \angle DFE$  by the properties of
  - (a) AA
- (b) SAS
- (c) SSS
- (d) None of these
- Find the length of segment DG (B)
  - (a) 10
- (b) 20
- (c) 30
- (d) 40
- Find the length of the segment DE (C)
  - (a) 10
- (b) 20
- (c) 30
- (d) 40
- Find the ratio of  $\frac{DG}{DE}$ (D)
  - (a) 2:3
- (b) 3:4
- (c) 4:5
- (d) 5:6









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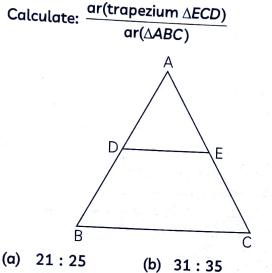
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- In the given figure, DE || BC and  $\frac{AD}{DB} = \frac{2}{3}$



- (c) 41:45 (d) 51:55
- In the given figure ABC is a triangle DE is parallel to BC and  $\frac{AD}{DR} = \frac{3}{2}$ , determine the
  - ratio of  $\frac{AD}{AB}$  and  $\frac{DE}{BC}$
  - (a) 3:5 (b) 4:7
  - (c) 7:9 (d) 9:11
- Amount deposited is equal to Monthly installment × n

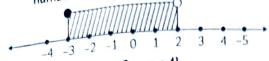
- (b) Monthly installment  $\times \frac{n(n+1)}{2}$
- $P \times R \times T$ (c) 100
- (d) None of these
- How many types of GST are available in India?
  - (b) Two (a) One (c) Three (d) Four
- Solve the following inequation
  - $4-2x \ge 2x-16$ , given that  $x \in N$
  - (a) {1, 2, 3, 4}
  - (b) {1, 2, 3, 4, 5} (c) {1, 2, 3 ..... ∞}
  - (d) None of these
- 6. What is the value of k in the given quadratic equation?

$$(k-1)^2 - 2x + 1 = 0$$

- (c) (d) None of these

- The solution set representing the following
- number line is

.



- (a)  $\{x: x \in R, -3 \le x \le 4\}$
- (b)  $\{x: x \in R, -3 < x < 4\}$
- (c)  $\{x: x \in R, -3 \le x < 4\}$
- (d)  $\{x: x \in R, -3 < x \le 4\}$
- If the sum and product of the root of the 8. equation  $ax^2 - 5x + c = 0$  are both equal to 10, find the value of a and c
  - (a)  $\frac{1}{2}$ , 5
    - (b)  $-5, \frac{1}{2}$

  - (c)  $-5, \frac{-1}{2}$  (d) None of these
- Find the duplicate ratio of  $2\sqrt{3}$  :  $\sqrt{5}$ 
  - (a) 12/25
- (b) 13/27
- (c) 17/19
- (d) None of these
- Find the value of  $A + A^2$  when  $A = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ 
  - (a) 1
- (b) 21
- (c) 3I
- (d) 41
- Find the value of A B,  $A = \begin{bmatrix} 4 & 5 \\ 3 & 4 \end{bmatrix}$ 
  - $B = \begin{bmatrix} 5 & 6 \\ 7 & 8 \end{bmatrix}$
- SECTION B [12 Marks]
  - $(6Q \times 2M)$
- 17. Find the value of 5X 2Y + 3, where X =
  - $\begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}, Y = \begin{bmatrix} 2 & 3 \\ 4 & 5 \end{bmatrix}$ 

    - (c)  $\begin{bmatrix} 4 & 4 \\ 13 & 7 \end{bmatrix}$  (d)  $\begin{bmatrix} 13 & 7 \\ 4 & 4 \end{bmatrix}$
- 18. Using remainders theorem to factorise completely the following polynomial

$$3x^2 - 2x^2 - 19x + 6$$

- (a) (x-2)(x+3)(3x-1)
- (b) (x + 2)(x + 3)(3x 1)(c) (x-2)(x-3)(3x+1)
- (d) None of these

- (a)  $\begin{bmatrix} -1 & 1 \\ 4 & 4 \end{bmatrix}$  (b)  $\begin{bmatrix} 7 & 9 \\ 6 & 7 \end{bmatrix}$
- (c)  $\begin{bmatrix} 2 & 4 \\ 6 & 8 \end{bmatrix}$  (d)  $\begin{bmatrix} 6 & 1 \\ 8 & 1 \end{bmatrix}$
- Find the subtriplet ratio of  $8a^3:125b^3$ 
  - (a) 2a/5b
- (b) 7b/3a
- (c) 5a/11b
- (d) 19a/17b
- Find the values of P, when x 1 is the factor 13. of  $x^3 - P^2 + 2x = 0$ 
  - (a) 1
- (b) 2
- (c) 3
- (d) 4
- **14.** Find the factor of  $x^2 6x + 9$
- (a)  $(x-2)^2$  (b)  $(x-3)^2$ (c)  $(x-4)^2$  (d)  $(x-2)^3$
- Find the sum of 6<sup>th</sup> term of the A.P. **15.** 
  - 2, 7, 12 .....
  - (a) 85
- (b) 86
- (c) 87
- (d) 88
- **16.** Find the 8<sup>th</sup> term of the A.P. is 5, + 8, 1 .....
  - (a) 22
- (b) 24
- (c) 25
- (d) 26
- Mr. Hemant reduce the no. of employes of his factory in the ratio 7:5 and increase their wages in the ratio of 8:13. In what ratio the wages will be increased or decreased
- (a) 56:60
- (b) 56:65
- (c) 57:68
- (d) 57:59
- 20. Solve the following inequations

$$\frac{2x+1}{3}\geq \frac{3x-2}{5}$$

- (a)  $x \ge -8$
- (b)  $x \ge -9$
- (c)  $x \ge -10$
- (d)  $x \ge -11$
- Amit is a proprietor of a firm registered under GST. He paid GST on ₹ 2000 on purchase and collected 5000 on sale. What is the amount of GST payable?

- (a) ₹ 3000
- (b) ₹ 4000
- (c) ₹ 5000
- (d) ₹ 6000
- **22.** Anushree deposited ₹ 100 per month for 50 month in a bank recurring deposited account.

If the bank pay interest at the rate of 10% per annum, then find the amount she will get on maturity.

- (a) ₹ 5150
- (b) ₹ 5762
- (c) ₹ 5172
- (d) ₹ 5784

## SECTION - C [12 Marks]

 $(3Q \times 4M)$ 

- 23. A two digit no. is such that the product of the digit is 14. When 45 is added to both the numbers then the digit interchange the places. Find
  - (A) Unit digit of the no.
    - (a) 7

(b) 8

(c) 9

- (d) 10
- (B) Tens digit of the no.
  - (a) 1

(b) 2

(c) 3

- (d) 4
- (C) Product of the digit
  - (a) 12
- (b) 13
- (c) 14
- (d) 15
- (D) Sum of the digit
  - (a) 7

(b) 8

(c) 6

- (d) 9
- **24.** The ratio of sum of  $n^{th}$  term of two A.P. is

 $\frac{7n+1}{4n+27}$ . Find the ratio of their

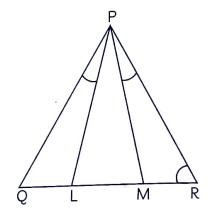
- (A) First terms of the A.P. 7n + 1 part
  - (a) 1

(b) 2

(c) 3

- (d) 4
- (B) Common difference (d) of the A.P.
  - (a) 20
- (b) 21
- (c) 22
- (d) 23
- (C) Find the value of n
  - (a) 20
- (b) 21
- (c) 22
- (d) 23

- (D) Find the ratio of 11<sup>th</sup> term of the A.P.
  - (a) 147:105
- (b) 157:111
- (c) 158:111
- (d) 148:111
- **25.** In a triangle PQR, L and M are the point on the base QR such that  $\angle LPQ = \angle QRP$  and  $\angle RPM = \angle RQP$ . Find the



- (A)  $\triangle PQL \sim \triangle RQP$ 
  - (a) AA
- (b) SAS
- (c) SSS
- (d) ASA
- (B) The value of  $QL \times RM$ 
  - (a)  $PL \times PM$
- (b)  $PQ \times RP$
- (c)  $LP \times QR$
- (d)  $PQ \times RQ$
- (C) The ratio of  $\frac{QL}{QP}$ 
  - (a)  $\frac{PL}{PM}$
- (b)  $\frac{PQ}{RP}$
- (c)  $\frac{LP}{OR}$
- (d)  $\frac{PL}{RP}$
- (D) The value of  $PQ^2$ 
  - (a)  $RQ \times LP$
- (b) PQ ×RP
- (c)  $LP \times QR$
- (d)  $QR \times QL$

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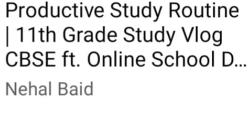


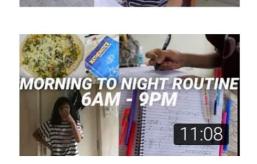


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## SECTION - A [16 Marks]

(c) 45

(a) 3

(c) 5

(a) 31

(a) -2

2.

$$\begin{bmatrix} 2x & 3y \\ 4z & 5w \end{bmatrix} = \begin{bmatrix} 6 & 15 \\ 20 & 35 \end{bmatrix}$$

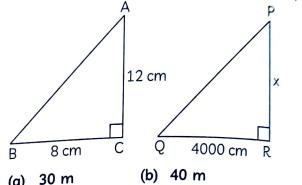
## Which term of the A.P. 3, 15, 27, 39, ..... will be more than its 21st term

(b) 32

# **4.** If $A = \begin{bmatrix} 2 & 3 \\ 4 & 5 \end{bmatrix}$ find the value of x so that

$$A^2 = \begin{bmatrix} 4 & 5 \end{bmatrix}$$
 find the value of x so that  $A^2 = 0$ .

(b) -1



 $2x^3 + x^2 - 13x + 6$ 

(16Q × 1M

### (d) 60 m 50 m (c) Factorise the following expression:

(a) (x + 2)(2x - 1)(x + 3)

(b) (x-2)(2x+1)(x+3)

(c) (x-2)(2x-1)(x+3)

(d) 
$$(x-2)(2x-1)(x-2)$$
  
In  $\triangle ABC$ ,  $DE \mid\mid BC$ , if  $AD = x$ ,  $DB = x-2$ ,  $AE = x+2$  and  $EC = x-1$ . Find  $x$ 

		(b)	4
(a)	3	(d)	6
,	5		

Find the value of m, x - 2 = 0 is the factor of

8. 
$$\frac{\text{Find the}}{x^2 - 2x + 2}$$
.  
(a)  $\pm \sqrt{2}$  (b)  $\pm \sqrt{3}$ 

(c) 
$$\pm \sqrt{5}$$
 (d)  $\pm \sqrt{7}$ 

Find the triplet ratio of 5:2

If 
$$A: B = 4: 5$$
 and  $B: C = 6: 7$  find  $A: C$ 

11. Form a quadratic equation when sum of root 
$$= \sqrt{5}$$
 and product of root is  $\sqrt{7}$ 

(a) 
$$x^2 - \sqrt{5}x - \sqrt{7}$$

(b) 
$$x^2 + \sqrt{5}x + \sqrt{7}$$

(c) 
$$-x^2 - \sqrt{5}x - \sqrt{7}$$

(d) 
$$x^2 + \sqrt{5}x - \sqrt{7}$$

$$2mx^2 + 4x - 2 = 0$$

$$(d) = 1$$

**13.** Solve the equation 
$$\frac{2x+1}{2} + 2(3-x) > 7$$
,  $x \in \mathbb{R}$ 

(a) 
$$x \le \frac{-1}{2}$$
 (b)  $x \ge \frac{-1}{2}$ 

(c) 
$$\frac{-1}{2} < x < \frac{-3}{2}$$
 (d) None of these

$$\frac{-1}{5} \le \frac{3x}{10} + 1 < \frac{2}{5}$$

(a) 
$$-4 \le x < -2$$
 (b)  $-6 \le x < -0$ 

(c) 
$$-8 \le x < -10$$
 (d)  $-10 \le x < -12$ 

## SECTION - B [12 Marks]

 $(6Q \times 2M)$ 

(a) S.P.(GST) × 100  

$$100 + \text{rate of GST}$$

(b) 
$$\frac{P \times R \times T}{100}$$

- (c) Discount% of MRP
- (d) None of these

## **18.** The formula of finding the value of maturity value

(a) 
$$P \times \frac{n(n+1)}{2+12} \times \frac{r}{100}$$

(b) 
$$P \times n + 1$$

**19.** If a is a positive real no. 
$$|x| \in a \Rightarrow$$
 .....

(a) 
$$-a \le x \le a$$

(b) 
$$x \le -a$$

(c) 
$$x \ge a$$
 (d) None of these

**20.** Comparison of ratio 
$$(a:b) > (c:d)$$
 ......

- (a) ad < bc
- (b) ad = bc
- (c) ad > bc
- (d) Both a and b

**21.** A is identity matrix, then what is the value of 
$$(A^T)^T$$

- (a) I
- (b) A
- (c) Both (a) and (b)
- (d) None of these

## **22.** What is the value of P when f(x) is a factor of f(x)

$$f(x) = x^3 + x^2 + px + 15$$
$$g(x) = x - 3$$







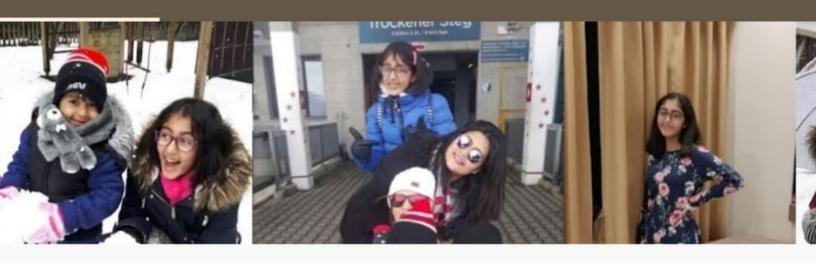


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- 23. A rectangular garden plot 16 m by 24 m is to be bordered by a strip of uniform width x m wide on the outside so as to double the area. Find:
  - (A) The area of the rectangular plot
    - (a)  $384 \text{ m}^2$
- (b)  $385 \text{ m}^2$
- (c)  $386 \text{ m}^2$
- (d)  $387 \text{ m}^2$
- (B) The area of the new rectangular garden
  - (a)  $755 \text{ m}^2$
- (b) 768 m<sup>2</sup>
- (c)  $749 \text{ m}^2$
- (d)  $745 \text{ m}^2$
- (C) The value of x
  - (a) 1

(b) 2

(c) 3

- (d) 4
- (D) The perimeter of new rectangular garden
  - (a) 105 m
- (b) 110 m
- (c) 108 m
- (d) 112 m
- **24.** The angle of a triangle are in A.P. if the greatest angle is twice the least. Find the
  - (A) Minimum angle
    - (a) 20°

(b) 40°

- (c) 60°
- (d) 80°
- (B) Maximum angle
  - (a) 20°

(b) 40°

(c) 60°

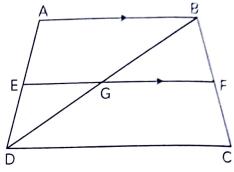
- (d) 80°
- (C) Common difference
  - (a) 20°

(b) 40°

(c) 60°

- (d) 80°
- (D) First angle of the A.P. [Measure other than maximum and minimum]
  - (a) 60°
- (b) 80°
- (c) 100°
  - 00° (d) 120°

25. In a trapezium ABCD, AB || DC = 2AB, pg drawn parallel to AB cut AD in F and BC in E such that BE = 3EC. Diagonal DB intersect EF at G. and 7FE = 10 AB.



- (A)  $\triangle BGE \sim \triangle BDC$  by the similarity
  - (a) AA

(b) SAS

(c) SSS

- (d) ASA
- (B) Find the ratio of BG: BD
  - (a)  $\frac{1}{7}$

(b)  $\frac{2}{7}$ 

(c)  $\frac{3}{7}$ 

- (d)  $\frac{4}{7}$
- (C) Find value of FG is equal how many times of AB
  - (a)  $\frac{1}{2}$

(b)  $\frac{3}{2}$ 

(c)  $\frac{5}{2}$ 

- (d)  $\frac{4}{7}$
- (D) Find the ratio of  $\frac{DG}{BD}$  =
  - (a)  $\frac{1}{2}$

(b)  $\frac{3}{2}$ 

(c)  $\frac{7}{2}$ 

(d)  $\frac{4}{7}$