

# FIRST REVISION TEST [2021-22]

STD : X EM

Model Q. No: 1

SUBJECT : MATHS

Date:

ANSWER

Marks: 100

## PART - I

$14 \times 1 = 14$

1. Answer all the 14 questions.
2. Choose the most suitable answer from the given four alternatives and write the option code with the corresponding answer.

1. If  $n(A \times B) = 6$  and  $A = \{1, 3\}$  then  $n(B)$  is

- (A) 1      (B) 2      (C) 3      (D) 6

2. If the ordered pairs  $(a+2, 4)$  and  $(5, 2a+b)$  are equal then  $(a, b)$  is

- (A)  $(2, -2)$       (B)  $(5, 1)$       (C)  $(2, 3)$       (D)  $(3, -2)$

3. Let  $n(A) = m$  and  $n(B) = n$  then the total number of non-empty relations that can be defined from  $A$  to  $B$  is

- (A)  $m^n$       (B)  $n^m$       (C)  $2^{mn} - 1$       (D)  $2^{mn}$

4. Using Euclid's division lemma, if the cube of any positive integer is divided by 9 then the possible remainders are

- (A) 0, 1, 8      (B) 1, 4, 8      (C) 0, 1, 3      (D) 1, 3, 5

5. The sum of the exponents of the prime factors in the prime factorization of 1729 is

- (A) 1      (B) 2      (C) 3      (D) 4

6. Given  $F_1 = 1$ ,  $F_2 = 3$  and  $F_n = F_{n-1} + F_{n-2}$  then  $F_5$  is

- (A) 3      (B) 5      (C) 8      (D) 11

7. If 6 times of 6<sup>th</sup> term of an A.P. is equal to 7 times the 7<sup>th</sup> term, then the 13<sup>th</sup> term of the A.P. is

- (A) 0      (B) 6      (C) 7      (D) 13

8. The next term of the sequence  $\frac{3}{16}, \frac{1}{8}, \frac{1}{12}, \frac{1}{18}, \dots \dots \text{is}$

- (A)  $\frac{1}{24}$       (B)  $\frac{1}{27}$       (C)  $\frac{2}{3}$       (D)  $\frac{1}{81}$

9. A system of three linear equations in three variables is inconsistent if their planes

- (A) intersect only at a point      (B) intersect in a line  
(c) coincides with each other      (D) do not intersect

10. If  $(x - 6)$  is the HCF of  $x^2 - 2x - 24$  and  $x^2 - kx - 6$  then the value of  $k$  is

(A) 3

(B) 5

(C) 6

(D) 8

11. The square root of  $\frac{256x^8y^4z^{10}}{25x^6y^6z^6}$  is equal to

(A)  $\frac{16}{5} \left| \frac{x^2 z^4}{y^2} \right|$

(B)  $16 \left| \frac{y^2}{x^2 z^4} \right|$

(C)  $\frac{16}{5} \left| \frac{y}{xz^2} \right|$

(D)  $\frac{16}{5} \left| \frac{xz^2}{y} \right|$

12. The solution of  $(2x - 1)^2 = 9$  is equal to

(A) -1

(B) 2

(C) -1, 2

(D) None of these

13. Graph of a linear equation is a \_\_\_\_\_

(A) straight line

(B) circle

(C) parabola

(D) hyperbola

14. The number of points of intersection of the quadratic polynomial  $(x + 2)^2$  With the X axis is

(A) 0

(B) 1

(C) 0 or 1

(D) 2

## PART – II

**10 x2 = 20**

**II Answer any 10 questions.**

**Question No. 28 is compulsory.**

15. If  $A = \{1, 3, 5\}$  and  $B = \{2, 3\}$ , then (i) find  $A \times B$  and  $B \times A$

**(i) find  $A \times B$  and  $B \times A$ .**

$$A = \{1, 3, 5\}$$

$$B = \{2, 3\}$$

$$A \times B = \{1, 3, 5\} \times \{2, 3\}$$

$$= \{(1, 2), (1, 3), (3, 2), (3, 3), (5, 2), (5, 3)\} \dots (1)$$

$$B \times A = \{2, 3\} \times \{1, 3, 5\}$$

$$= \{(2, 1), (2, 3), (2, 5), (3, 1), (3, 3), (3, 5)\} \dots (2)$$

**(ii) Is  $A \times B = B \times A$ ?  
If not why?**

**From (1) and (2)**

$$A \times B \neq B \times A$$

$(1, 2) \neq (2, 1)$  and  
 $(1, 3) \neq (3, 1)$ , etc.

16. If  $B \times A = \{(-2, 3), (-2, 4), (0, 3), (0, 4), (3, 3), (3, 4)\}$  find A and B.

**Answer : Visit Youtube Link Q.no:3 - <https://youtu.be/62jStaJkiWM>**

17. A Relation R is given by the set  $\{(x, y) | y = x+3, x \in \{0, 1, 2, 3, 4, 5\}\}$ . Find its domain and range.

**Answer : Visit Youtube Link Q.no:3 - <https://youtu.be/RmN876oEACQ>**

**Visit Youtube Link : <https://youtu.be/B1GZ9X76FKQ>**

18. Show that the square of an odd integer is of the form  $4q + 1$ , for some integer  $q$ .

Any odd integer is of the form :  $x = 2k + 1$  for some integer  $k$ .

$$\begin{aligned}x^2 &= (2k + 1)^2 \\&= 4k^2 + 4k + 1 \\&= 4k(k + 1) + 1 \\&= 4q + 1 \quad \text{where } q = k(k + 1) \text{ is some integer.}\end{aligned}$$

19. Find  $a_8$  and  $a_{15}$  whose  $n^{\text{th}}$  term is  $a_n = \begin{cases} \frac{n^2-1}{n+3}; & n \text{ is even, } n \in N \\ \frac{n^2}{2n+1}; & n \text{ is odd, } n \in N \end{cases}$

Answer : Visit Youtube Link Q.no:5 - [https://youtu.be/9\\_AqHe\\_xIRc](https://youtu.be/9_AqHe_xIRc)

20. Check whether the sequence are in A.P. or not?  $3\sqrt{2}, 5\sqrt{2}, 7\sqrt{2}, 9\sqrt{2}, \dots$

ii)  $3\sqrt{2}, 5\sqrt{2}, 7\sqrt{2}, 9\sqrt{2}, \dots$

$$t_2 - t_1 = 5\sqrt{2} - 3\sqrt{2} = 2\sqrt{2}$$

$$t_3 - t_2 = 7\sqrt{2} - 5\sqrt{2} = 2\sqrt{2}$$

$$t_2 - t_1 = t_3 - t_2$$

The differences between consecutive terms are equal

Hence the sequence is in A.P.

21. If nine terms ninth term is equal to the fifteen times fifteenth term, show that six times twenty fourth term is zero.

Answer : Visit Youtube Link Q.no:7 - <https://youtu.be/j4qapmo-ZoE>

22. If  $3 + k, 18 - k, 5k + 1$  are in A.P. then find  $k$ .

Answer : Visit Youtube Link Q.no:8 - [https://youtu.be/oB2kw\\_CCAoE](https://youtu.be/oB2kw_CCAoE)

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23. Solve  $2x - 3y = 6$ ,  $x + y = 1$

$$\begin{array}{ll} 2x - 3y = 6 & \text{--- (1)} \\ x + y = 1 & \text{--- (2)} \end{array}$$

(1)  $\times 1$  gives,  $2x - 3y = 6$

(2)  $\times 2$  gives,  $2x + 2y = 2$

$$-5y = 4$$

$$y = \frac{-4}{5}$$

If  $y = -\frac{4}{5}$  Sub. the eqn. (2)

$$x - \frac{4}{5} = 1$$

$$x = \frac{9}{5}$$

$$x = \frac{9}{5}, y = \frac{-4}{5}$$

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24. Find the LCM of the given expressions  $p^2 - 3p + 2$ ,  $p^2 - 4$

Answer : Visit Youtube Link Q.no:2[iv] - <https://youtu.be/uQrNaUWnhvI>

25.. Simplify:  $\frac{x^3}{x-y} + \frac{y^3}{y-x}$

Answer : Visit Youtube Link Q.no:1[iii] - <https://youtu.be/4EOrRL8-Egk>

26. Find the square root of the following rational expressions:  $\frac{400x^4y^{12}z^{16}}{100x^8y^4z^4}$

Answer : Visit Youtube Link Q.no:1[i] - <https://youtu.be/QYkaXjgdmhg>

27. Determine the nature of the roots for the following quadratic equations  $15x^2 + 11x + 2 = 0$

Answer : Visit Youtube Link Q.no:1[i] - <https://youtu.be/QN3WiZJ8ZdA>

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**Visit Youtube Link : <https://youtu.be/B1GZ9X76FKQ>**

28. Find the values of 'k' for which the quadratic equation  $kx^2 - (8k+4)x + 81 = 0$  has real and equal roots?

$$(i) x^2 - x - 20 = 0$$

$$a = 1, b = -1, c = -20$$

$$\Delta = b^2 - 4ac$$

$$\Delta = (-1)^2 - 4(1)(-20)$$

$$= 81$$

So, the equation will have  
real and unequal roots

PART - III

$$10 \times 5 = 50$$

**III Answer 10 questions. Question No. 42 is compulsory.**

- 29.** Let  $A = \{x \in N \mid 1 < x < 4\}$ ,  $B = \{x \in W \mid 0 \leq x < 2\}$  and  $C = \{x \in N \mid x < 3\}$ . Then verify that  $A \times (B \cup C) = (A \times B) \cup (A \times C)$

**Example 1.3** Let  $A = \{x \in N \mid 1 < x < 4\}$ ,  $B = \{x \in W \mid 0 < x < 2\}$  and  $C = \{x \in W \mid x < 3\}$ . Then verify that (ii)  $A \times (B \cap C) = (A \times B) \cap (A \times C)$

$$A = \{2, 3\} \quad B = \{0, 1\} \quad C = \{1, 2\}$$

**To Prove :**  $A \times (B \cap C) = (A \times B) \cap (A \times C)$

$$B \cap C = \{0, 1\} \cap \{1, 2\} = \{1\}$$

$$A \times (B \cap C) = \{2, 3\} \times \{1\}$$

$$= \{(2, 1), (3, 1)\} \dots \dots \dots (1)$$

$$A \times B = \{2, 3\} \times \{0, 1\}$$

$$= \{(2, 0), (2, 1), (3, 0), (3, 1)\}$$

$$A \times C = \{2, 3\} \times \{1, 2\}$$

$$= \{(2,1), (2,2), (3,1), (3,2)\}$$

$$(A \times B) \cap (A \times C) = \{(2, 0), (2, 1), (3, 0), (3, 1)\} \cap \{(2, 1), (2, 2), (3, 1), (3, 2)\} \\ = \{(2, 1), (3, 1)\} \quad \dots \dots \dots \quad (2)$$

From ① and ② are equal

$$A \times (B \cap C) = (A \times B) \cap (A \times C)$$

Hence , it is Verified

- 30.** Let  $A=\{1,2,3,7\}$  and  $B=\{3,0, -1,7\}$ , which of the following are relation from A to B?  
 (i)  $R_1=\{(2,1), (7,1)\}$       (ii)  $R_2=\{(-1,1)\}$       (iii)  $R_3=\{(2,-1), (7,7), (1,3)\}$   
 (iv)  $R_4=\{(7,-1), (0,3), (3,3), (0,7)\}$

**Answer :** Visit Youtube Link Q no:1 - <https://youtu.be/61MODZ6IkI0>

31. Represent each of the given relations by (a) an arrow diagram, (b) a graph and  
(c) a set in roster form, wherever possible.  $\{(x, y) / x=2y, x \in \{2, 3, 4, 5\}, y \in \{1, 2, 3, 4\}\}$

**Answer :** Visit Youtube Link Q.no:4[i] - [https://youtu.be/bq2\\_M6tT1gc](https://youtu.be/bq2_M6tT1gc)

32. Use Euclid's Division Algorithm to find the Highest Common Factor (HCF) of 84, 90 and 120.

**Answer :** Visit Youtube Link Q.no:6[iv] - <https://youtu.be/Z6oqqt27eJk>

33. 'a' and 'b' are two positive integers such that  $a^b \times b^a = 800$ . Find a and b.

$$a^b \times b^a = 800.$$

$$= 2 \times 2 \times 2 \times 2 \times 2 \times 5 \times 5$$

$$a^b \times b^a = 2^5 \times 5^2$$

$$a = 2 \text{ and } b = 5 \text{ (or)} \quad a = 5 \text{ and } b = 2.$$

**Answer Visit:** [https://www.kanimaths.com/2022/01/blog-post\\_25.html](https://www.kanimaths.com/2022/01/blog-post_25.html)

34. Find the greatest number consisting of 6 digits which is exactly divisible by 24, 15, 36?

**Answer :** Visit Youtube Link Q.no:7 - <https://youtu.be/2rz28TmZz1E>

35. The sum of 3 consecutive terms that are in A.P. is 27 and their product is 288. Find the 3 terms.

**Answer :** Visit Youtube Link Q.no:11 - <https://youtu.be/OwcnkNhTtLw>

36. If  $(m+1)^{\text{th}}$  term of an A.P. is twice the  $(n+1)^{\text{th}}$  term, then prove that  $(3m+1)^{\text{th}}$  term is twice the  $(m+n+1)^{\text{th}}$  term.

Let a be the 1st term and d be the common difference

$$t_n = a + (n-1)d$$

$$(m+1)^{\text{th}} \text{ term} = 2 [ (n+1)^{\text{th}} \text{ term}]$$

$$t_{(m+1)} = 2 [t_{(n+1)}]$$

$$a + (m+1-1)d = 2 [a + (n+1-1)d]$$

$$a + md = 2[a + nd] \text{ ----- (1)}$$

$$(3m+1)^{\text{th}} \text{ term} = t_{(3m+1)}$$

$$= a + (3m+1-1)d$$

$$= a + 3md$$

$$= a + md + 2md$$

$$= 2(a + nd) + 2md \quad [\text{by (1)}]$$

$$= 2(a + md + nd)$$

$$= 2[a + (m+n)d]$$

$$= 2[a + (m+n+1-1)d]$$

$$= 2[t_{(m+n+1)}]$$

$$= 2 [(3m+1)^{\text{th}} \text{ term}]$$

Hence  $(3m+1)^{\text{th}}$  term is twice the  $(m+n+1)^{\text{th}}$  term.

**Visit Youtube Link :** <https://youtu.be/B1GZ0X76FKQ>

37. Solve the following system of linear equations in three variables.

$$x + y + z = 5; \quad 2x - y + z = 9; \quad x - 2y + 3z = 16$$

Answer : Visit Youtube Link Q.no:1 - <https://youtu.be/Lm9pITgyYrM>

38. Simplify  $\frac{1}{x^2-5x+6} + \frac{1}{x^2-3x+2} - \frac{1}{x^2-8x+15}$

$$\begin{aligned}\frac{1}{x^2-5x+6} + \frac{1}{x^2-3x+2} - \frac{1}{x^2-8x+15} &= \frac{1}{(x-2)(x-3)} + \frac{1}{(x-2)(x-1)} - \frac{1}{(x-5)(x-3)} \\ &= \frac{(x-1)(x-5) + (x-3)(x-5) - (x-1)(x-2)}{(x-1)(x-2)(x-3)(x-5)} \\ &= \frac{(x^2 - 6x + 5) + (x^2 - 8x + 15) - (x^2 - 3x + 2)}{(x-1)(x-2)(x-3)(x-5)} \\ &= \frac{x^2 - 11x + 18}{(x-1)(x-2)(x-3)(x-5)} \\ &= \frac{(x-9)(x-2)}{(x-1)(x-2)(x-3)(x-5)} \\ &= \frac{x-9}{(x-1)(x-3)(x-5)}\end{aligned}$$

39. If  $A = \frac{2x+1}{2x-1}$ ,  $B = \frac{2x-1}{2x+1}$ , find  $\frac{1}{A-B} - \frac{2B}{A^2-B^2}$ .

Answer : Visit Youtube Link Q.no:5 - <https://youtu.be/j8-izoTEnvw>

40. Find the square root of the following polynomials by division method  $37x^2 - 28x^3 + 4x^4 + 42x + 9$

Answer : Visit Youtube Link Q.no:1[ii] - <https://youtu.be/wHbKhcs-lgc>

41. A bus covers a distance of 90 km at a uniform speed. Had the speed been 15km/hour more it would have taken 30 minutes less for the journey. Find the original speed of the bus.

Answer : Visit Youtube Link Q.no:3 - [https://youtu.be/MNNDBZ\\_jNo4](https://youtu.be/MNNDBZ_jNo4)

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42. If  $\alpha, \beta$  are the roots of the equation  $2x^2 - x - 1 = 0$ , then form the equation whose roots are

$$\frac{1}{\alpha}, \frac{1}{\beta}$$

whose roots are (i)  $\frac{1}{\alpha}, \frac{1}{\beta}$

$$2x^2 - x - 1 = 0$$

$$a = 2, b = -1, c = -1$$

$$\alpha + \beta = \frac{-b}{a}$$

$$= \frac{-(-1)}{2}$$

$$= \frac{1}{2}$$

$$\text{Given roots are } \frac{1}{\alpha}, \frac{1}{\beta}$$

$$\text{Sum of the roots} = \frac{1}{\alpha} + \frac{1}{\beta}$$

$$= \frac{\alpha + \beta}{\alpha \beta}$$

$$\alpha \beta = \frac{c}{a}$$

$$= -\frac{1}{2}$$

$$= \frac{\frac{1}{2}}{-\frac{1}{2}}$$

$$= -1$$

$$\text{Product of the roots} = \frac{1}{\alpha} \times \frac{1}{\beta}$$

$$= \frac{1}{\alpha \beta}$$

$$= \frac{1}{-\frac{1}{2}}$$

$$= -2$$

The required equation is

$$x^2 - (\text{Sum of the roots})x + (\text{Product of the roots}) = 0$$

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

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

17

## PART – IV

**2 x 8 = 16**

### IV. Answer any one questions.

43. a) Discuss the nature of solutions of the following quadratic equations .  $x^2 + 2x + 5 = 0$

$$(iii) x^2 + 2x + 5 = 0$$

$$y = x^2 + 2x + 5$$

x	-4	-3	-2	-1	0	1	2	3
$x^2$	16	9	4	1	0	1	4	9
2x	-8	-6	-4	-2	0	2	4	6
5	5	5	5	5	5	5	5	5
y	13	8	5	4	5	8	13	20

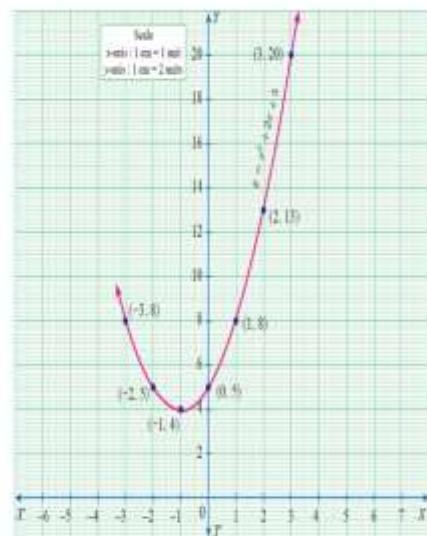
Plot the Point :

(- 4, 13), (- 3, 8), (- 2, 5), (- 1, 4), (0, 5), (1, 8), (2, 13), (3, 20)

Point of Intersection : No

Solution : No

Nature of roots : No real roots



Visit Youtube Link : <https://youtu.be/B1GZ9X76FKQ>

(or)

b) Graph the following quadratic equations and state their nature of solutions.  $x^2 - 4x + 4 = 0$

(ii)  $x^2 - 4x + 4 = 0$

$$y = x^2 - 4x + 4$$

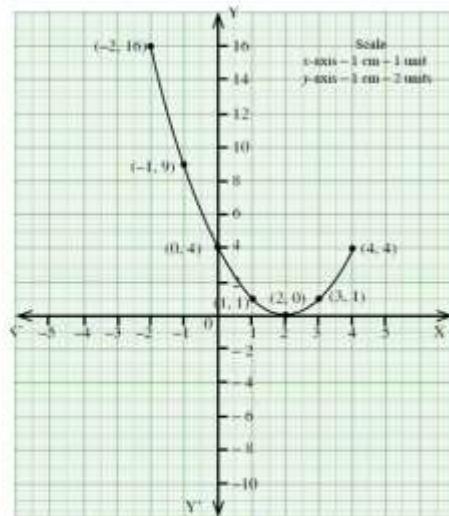
$x$	-3	-2	-1	0	1	2	3	4	5	6
$x^2$	9	4	1	0	1	4	9	16	25	36
$-4x$	12	8	4	0	-4	-8	-12	-16	-20	-24
$4$	4	4	4	4	4	4	4	4	4	4
$y$	25	16	9	4	1	0	1	4	9	16

Plot the Point :

(-3, 25), (-2, 16), (-1, 9), (0, 4), (1, 1), (2, 0), (3, 1), (4, 4), (5, 9), (6, 16)

Point of Intersection : (2, 0)

Solution : {2}



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Nature of roots : Real and equal

44. a) Draw the graph of  $y = x^2 - 4x + 3$  and use it to solve  $x^2 - 6x + 9 = 0$ .

$$y = x^2 - 4x + 3$$

$x$	-3	-2	-1	0	1	2	3	4	5	6
$x^2$	9	4	1	0	1	4	9	16	25	36
$-4x$	12	8	4	0	-4	-8	-12	-16	-20	-24
$3$	3	3	3	3	3	3	3	3	3	3
$y$	24	15	8	3	0	-1	0	3	8	15

Plot the Point : (-3, 24), (-2, 15), (-1, 8), (0, 3), (1, 0), (2, -1), (3, 0), (4, 3), (5, 8), (6, 15)

$$y = x^2 - 4x + 3$$

$$x^2 - 6x + 9 = 0$$

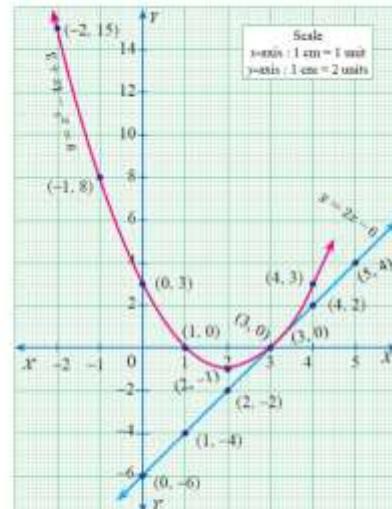
$$y = 2x - 6$$

$x$	-3	-2	-1	0	1	2	3	4	5
$2x$	-6	-4	-2	0	2	4	6	8	10
$-6$	-6	-6	-6	-6	-6	-6	-6	-6	-6
$y$	-12	-10	-8	-6	-4	-2	0	2	4

Plot the Point : (-3, -12), (-2, -10), (-1, -8), (0, -6), (1, -4), (2, -2), (3, 0), (4, 2), (5, 4)

Point of Intersection : (3, 0)

Solution : {3}



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(or)

b) Draw the graph of  $y = x^2 - 5x - 6$  and hence solve  $x^2 - 5x - 14 = 0$ .

$$y = x^2 - 5x - 6$$

x	-4	-3	-2	-1	0	1	2	3	4	5	6	7
$x^2$	16	9	4	1	0	1	4	9	16	25	36	49
-5x	20	15	10	5	0	-5	-10	-15	-20	-25	-30	-35
-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6
y	30	18	8	0	-6	-10	-12	-12	-10	-6	0	8

Plot the Point  $(-4, 30), (-3, 18), (-2, 8), (-1, 0), (0, -6), (1, -10), (2, -12), (3, -12), (4, -10), (5, -6), (6, 0), (7, 8)$

$$y = x^2 - 5x - 6$$

$$x^2 - 5x - 14 = 0$$

$$y = 8$$

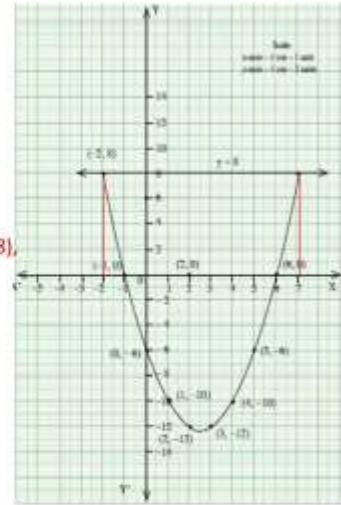
x	-5	-4	-3	-2	-1	0	1	2	3	4	5
$y=8$	8	8	8	8	8	8	8	8	8	8	8

Plot the Point :  $(-5, 8), (-4, 8), (-3, 8), (-2, 8), (-1, 8), (0, 8), (1, 8), (2, 8), (3, 8), (4, 8), (5, 8)$

Point of Intersection :  $(-2, 0)$  and  $(7, 0)$

Solution :  $\{-2, 7\}$

Visit Youtube Link : <https://youtu.be/B1GZ9X76FKQ>



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Answer Visit: [https://www.kanimaths.com/2022/01/blog-post\\_25.html](https://www.kanimaths.com/2022/01/blog-post_25.html)

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