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11. If α, β are zeroes of $2n^2-5n+3$ find $\alpha/\beta + \beta/\alpha$. ii) $1/\alpha + 1/\beta$
12. If $P(x) = 6x^2+x-2$, α, β are zeroes of it find the value of
i) $\alpha^2\beta+\beta^2\alpha$ ii) $\alpha^3+\beta^3$.
13. If 1 is a zero of ax^2+bx+C ($a \neq 0$) then find the value of $\frac{b+c}{a}$.

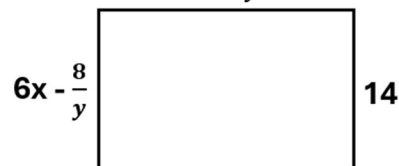
CHAPTER - 3

1. Find the sum of intercept cut off by the line $3x+2y = 5$ on co-ordinate axis.
2. For what value of K, (b,k) is a solution of $3x+y = 22$.
3. If $x=4$ and $y=3P-1$ is a solution of $x+y=8$ and $x-y=2$. Find p.
4. Find the Point of intersection of $y = 2$ and $2x+3y = 5$.
5. Find the value of $x - y$ in which $2x+2y = 9$, $x-2y = 1$.
6. If $2x + 3y = 0$ and $4x - 3y = 0$. Find $x+y$.
7. Solve for x & y : $\sqrt{5} x + \sqrt{7} y = 0$, $\sqrt{3} x - \sqrt{2} y = 0$
8. If $\sqrt{a} x - \sqrt{b} y = 0$ and $\sqrt{b} x - \sqrt{a} y = 0$. Find xy .
9. If $2x = 8y-1$ and $9y = 3x-b$. Find $x-y$.
10. Solve for x and y : $31x + 29y = 89$, $29x + 31y = 91$.
11. Find the value of $x + y$, $152x - 378y = -78$, $-378x + 152y = -604$.
12. Find area of a triangle whose vertices are $(3,2)$, $(5,2)$ and $(-7,2)$.
13. Find k for which equation has no solution,
 $kx + 2y - 1 = 0$ and $5x - 3y + 2 = 0$
14. Find k for which equation has infinite sol. $2x - 3y = 7$,
 $(k+2) x - (2k+1) y = 3(2k-1)$.
15. Find m , If $2x + 3y - 5 = 0$ and $mx - 6y = 8$ has unique solution.

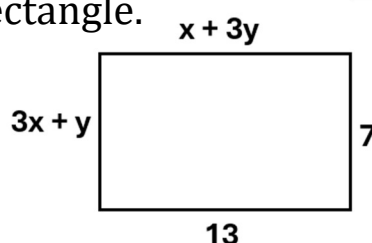
CHAPTER 3

1. Solve the following $\sqrt{5x} + \sqrt{7y} = 0$, $\sqrt{3x} - \sqrt{2y} = 0$.
2. Find x & y If $\sqrt{x} + \sqrt{y} = 7$ and $\sqrt{x} - \sqrt{y} = 1$.
3. Solve $31x + 29y = 89$ and $29x + 31y = 91$.
4. Find area of Δ formed by $x+y = 6$ and co-ordinate axes.
5. Find the value of K for which given Equation has no solution
 $kx + 2y - 1 = 0$ and $5x - 3y + 2 = 0$
6. In a cyclic $\square ABCD$, $\angle A = 6x + 10$, $\angle B = 5x$, $\angle C = x+y$, $\angle D = 3y-10$. Find $x+y$.
7. The larger of two supplementary angle exceeds the smaller by 18° find the angle.
8. The sum of digits of a two digit No is 9. If 27 is added to it. Then digits of the number get reversed. Find the number.
9. The sum of two number is 20 and their product is 75. Find the sum of their reciprocals.
10. Two number are in the ratio 3:4. If 8 is added to each of number the ratio become 4:5. Find the sum of numbers.

11. In the given rectangle find x & y.

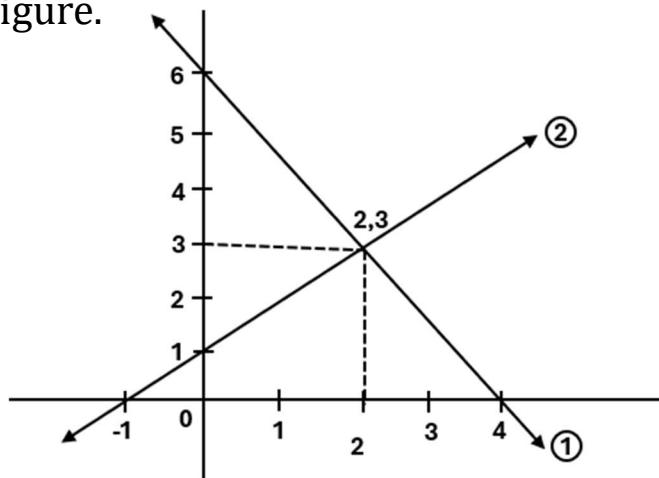


12. Find the x & y in given rectangle.



CHAPTER - 3

1. Find the ratio of area of triangle formed by given lines with x-axis and y-axis in the given figure.



2. Draw the graph of $x - y + 2 = 0$ and $4x - y - 4 = 0$, also find area on x-axis.
3. The monthly income of A and B are in the ratio 9:7 and their monthly expenditure are in the ratio 4:3. If each of them saves 1600 Rs per month. Find their monthly income.
4. 37 markers and 53 Pens together cost 3200, while 53 marker and 37 pens cost 4000 Rs. Find the cost of each marker and Pen.
5. A father is three times old as his son. After 12 years, he will be twice as old as his son, find the age of father and son.
6. If 2 is added to the numerator of a fraction, it becomes $\frac{1}{2}$ and if 1 is subtracted from the denominator it becomes $\frac{1}{3}$ find fraction.
7. If one number is twice the other and their sum is 117, then find larger number.
8. Megha has only 1 rupee and 2 rupee coin. If total number of coins is 50. and amount with her 755 find number of each coin.

QUADRATIC EQUATION

1. Find k. If $3x^2 + kx - 2 = 0$ have equal roots.
2. find x If $x + 1/x = 2$
3. find x If $(x + 2)(x - 2) = 8$
4. If sum of two No is 8 and their product is 16.
5. If a Company makes certain Items in a day and each cost is 3 more than 2twice the Number of articles. If total cost is 90. find number of items.
6. If a train cover 360 km with a certain-speed. It takes 3 hour more if speed were 8 km/h less, find speed of train.
7. Factorise
 1. $\frac{x+2}{x+1} = \frac{x}{3}$
 2. $2x^2 + 2\sqrt{3}x - 6 = 0$
8. Factorise $2x^2 - x + 1/8 = 0$
9. Find k If roots are equal $kx(kx - 2\sqrt{5}) + 10 = 0$
10. If $(1+m^2)x^2 - 2mcx + (c^2 - a^2) = 0$ has equal root the prove that $c^2 = a^2(1 + m^2)$.
11. $(b-c)x^2 + (c-a)x + (a-b) = 0$ are equal roots. Then prove that $2b = a + c$.

CHAPTER - 4

1. Find the discriminant of the equation $3\sqrt{3}x^2 + 10x + \sqrt{3} = 0$
2. If the sum of roots of equation $x^2 - (k+6)x + 2(2k-3) = 0$ is equal to the half of their product, then find k.
3. Find the value of x, $x + \frac{1}{x} = 11\frac{1}{11}$
4. Find k for which $kx(x-3) + 9 = 0$ has equal roots.
5. Find k for which roots of equation $3x^2 - 10x + k = 0$ are reciprocal of each other.
6. The roots of equation $kx^2 + 6x + 4k = 0$ are equal find k.
7. The root of equation $x^2 - 12x + p = 0$ are in ratio 1 : 2, find p.
8. If $x = 1$ is a common root of equation $ax^2 + ax + 3 = 0$ and $x^2 + x + 6 = 0$ then find ab.
9. If sum of roots of equation $x^2 - x = \lambda(2n-1)$ is zero, find λ .
10. If α and β are roots of $2x^2 + x - 6 = 0$, then find a Quadratic equation whose roots are 3α and 3β .
11. Find $x\sqrt{13 - x^2} = x + 5$
12. If roots of equation $2x^2 + (4m + 1)x + 2(2m - 1) = 0$ are reciprocal of each other, find m.
13. If α, β are roots of $x^2 - 4x + k = 0$ and $\alpha^2 + \beta^2 = 40$ then find k.
14. Find the value of x in $x^2 - 2ax + a^2 - b^2 = 0$
15. If α, β are roots of $x^2 - 4x + 3 = 0$ then find the value of $\alpha^4\beta^2 + \alpha^2\beta^4$

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