

## **MATHS**

# BOOKS - CALCUTTA BOOK HOUSE MATHS (BENGALI ENGLISH)

## **GRAPHS**

**Examples Select The Correct Answer Mcq** 

**1.** (i) The Cartesian co-ordinates of the point 
$$\left(\sqrt{2},\,\frac{\pi}{6}\right)$$

is

A. 
$$\left(\sqrt{\frac{3}{2}}, \frac{1}{\sqrt{2}}\right)$$

B. 
$$\left(\sqrt{\frac{3}{2}}, \frac{1}{2}\right)$$

C. 
$$\left(\sqrt{3}, \frac{1}{\sqrt{2}}\right)$$
D.  $\left(\frac{1}{\sqrt{2}}, \frac{2}{\sqrt{2}}\right)$ 

## **Answer: A**



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**2.** (ii) The polar form of the equation 
$$\left(x^2+y^2
ight)^{rac{3}{2}}=a\left(x^2-y^2
ight)$$
 in the Cartesian form is

A. 
$$r=a\cos heta$$

B. 
$$r=a\sin heta$$

C. 
$$r = a \cos 2\theta$$

D. 
$$r=a\sin 2 heta$$

#### **Answer: C**



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**3.** (iii) The Cartesian form the equation  $r=a\sin\theta$  in the polar is......

$$A. x^2 + y^2 = ax$$

$$\mathrm{B.}\,x^2+y^2=ay$$

$$\mathsf{C.}\,x^2-y^2=ax$$

$$\mathsf{D}.\,x^2-y^2=ay$$

**Answer: B** 



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# **Examples Short Answer Type Questions**

**1.** (a) Plot the following points on the graph-paper and write whether they are above or below the x-axis : (i)  $(3,\,-2)$ 



**2.** (a) Plot the following points on the graph-paper and write whether they are above or below the x-axis : (ii) (-5, -5)



**3.** (a) Plot the following points on the graph-paper and write whether they are above or below the x-axis: (iii) (7, -7)



**4.** (a) Plot the following points on the graph-paper and write whether they are above or below the x-axis : (iv) (0, -9)



**5.** (b) Plot the following points on the graph paper and write whether they are on the right side or on the left side of the y-axis. (i) (5, -7)



**6.** (b) Plot the following points on the graph paper and write whether they are on the right side or on the left side of the y-axis. (ii) (-3, -5)



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**7.** (b) Plot the following points on the graph paper and write whether they are on the right side or on the left side of the y-axis. (iii) (-3,4)



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**8.** (b) Plot the following points on the graph paper and write whether they are on the right side or on the left side of the y-axis. (iv) (11, 3)



**9.** Write four points on the x-axis.



10. Write four points on the y-axis.



**11.** Write the co-ordinates of a point in each of the quadrants.



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**12.** The distance of a point from the x-axis in the positive direction is 5 and from the y-axis in the positive direction is 7. Find the co-ordinates of the point.



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**Examples Lone Answer Type Questions** 

**1.** Express the following statements in the form of simultaneous linear equations :

The total value of 3 copies (khata) and 2 pens is Rs. 44 and that of 4 copies (khata) and 3 pens is Rs. 61.



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**2.** Express the following statements in the form of simultaneous linear equations :

The sum of two different numbers is 80 and 3 times of the difference of the two numbers is 20 more than the greater one.



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**3.** Express the following statements in the form of simultaneous linear equations :

If 2 is added to both the numerator and denominator of a fraction, its value becomes  $\frac{7}{9}$  and if 3 subtracted from both the numerator and denominator of it, the fraction becomes  $\frac{1}{2}$ .



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**4.** Express the following statements in the form of simultaneous linear equations :

(iv) The tens' digit of a number of two digits is double of its unit's digit. The number, obtained by reversing

the two digits of the number, is 27 less than the original number.



**5.** Find the distance of the point (6, -8) from both the axes.



**6.** Determine the co-ordinates of the point intersection of the equation 2x+3y=12 on the xaxis.



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**7.** Find the co-ordinates of the point of intersection of the equation 2x-3y=12 on the y-axis.



**8.** Find the area of the triangle formed by the graph of the equation 3x+4y=12 and the co-ordinates axes.



**9.** Determine the angle which the graph of the equation x=y makes with the positive x-axis.



10. Draw the graphs of the following equations : (i)

$$x = 5$$



**11.** Draw the graphs of the following equations : (ii)

$$y + 2 = 0$$



12. Draw the graphs of the following equations: (iii)

$$3x - 7y = 21$$



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13. Draw the graphs of the following equations: (iv)

$$\frac{x}{3} + \frac{y}{4} = 0.$$



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**14.** Express the following statements in the form of a linear equations of two variables and draw the graph of them: (i) The sum of two numbers is 15.

**15.** Express the following statements in the form of a linear equations of two variables and draw the graph of them : (ii) If 2 is added to both the numerator and denominator of a fraction, the value of the fraction becomes  $\frac{7}{9}$ .



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**16.** Draw the graph of the following simultaneous linear equations :

(i) y = 5 and 2x + 3y = 11

**17.** Draw the graph of the following simultaneous linear equations :

(ii) 
$$3x - 5y = 16$$
 and  $2x - 9y = 5$ .



**18.** Draw the graph of the following simultaneous linear equations and determine the co-ordinates of the point of intersection of each of them. Also, find their solutions :

(i) 
$$3x - y = 5$$
,  $4x + 3y = 11$ 

**19.** Draw the graph of the following simultaneous linear equations and determine the co-ordinates of the point of intersection of each of them. Also, find their solutions :

(ii) 
$$2x + 3y = 12, 2x = 3y$$
.



**20.** Draw the graph of the equation  $\frac{x}{3} + \frac{y}{4} = 2$  Also, find the area of the triangle which is produced by this graph with the co-ordinate axes.

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**21.** Draw the graph of the equation  $x=4,\,y=3\,\,{
m and}\,\,3x+4y=12$  . Also, find the area of the triangle formed by these three graphs.



**22.** Draw the graph of  $y=\frac{x+2}{3}$ , Find the value of y where x=-2 from the graph. Also find from the graphs the value of x for which the value of y is 3.



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23. Solve :  $\frac{3x-1}{2} = \frac{2x+6}{3}$  by drawing its graph.



**24.** At a present your uncle is elder than you by 16 years. After 8 years, the age of your uncle will be 2 times of your age. Find the present ages of you and your uncle with the help of graphs.



**25.** A boat travels 64 km in 16 hours in favor of the current and 24 km in 8 hours against the current of

the river. Find the velocity of the boat in steady water and the velocity of the current with the help of graph.



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**26.** (a) Find the value of t if the point  $\left(4,t^2-4t+4\right)$ lie on the x-axis.



(b) For what value of t the point 27.  $(t^2-ig(2+\sqrt{3}ig)t+2\sqrt{3},8ig)$  lie on the y-axis ?



28. (a) Find the equation of the straight line parallel to the x-axis and passing through the point (-3, -5).



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29. (b) Find the equation of the straight line parallel to the y-axis and passing through the point (-1, -7).



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**30.** (a) Determine the value of a if the straight line ax+7y=3(a-2) passes through the origin.



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**31.** (b) Determine the value of a if the straight line 2x+ay=10(a-30) passes through the point (1,2).



**32.** (a) Determine the co-ordinates of the point on the straight line 2x-3y=12 whose abscissa is double

of its ordinate.



**33.** (b) Determine the co-ordinates of the point on the straight line 11x-7y+10=0 whose ordinate is 3 times of its abscissa.



**34.** (a) Find the polar co-ordinates of a point Cartesian co-ordinates are (-1,1).



**35.** (b) Find the Cartesian co-ordinates of a point whose polar co-ordinates are  $\left(\sqrt{2}, \frac{5\pi}{4}\right)$ .



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**36.** (a) Transfer the equation  $x^2+y^2=2ax$  Cartesian co-ordinates into an equation of polar co-ordinates.



**37.** (b) Transfer the equation  $r = a\cos\theta$  of polar coordinates into an equation of Cartesian co-ordinates.



**38.** If the values C and R denote the temperature in Centigrade and Romer scale respectively, then the relation between them is given by  $\frac{C}{5}=\frac{R}{5}$ .

(i) Express this relation by a graph i.e. draw a graph of this relation.



**39.** If the values C and R denote the temperature in Centigrade and Romer scale respectively, then the relation between them is given by  $\frac{C}{5}=\frac{R}{4}.$ 

(ii) What will be the temperature of a place in Romer

scale if the temperature of the place is centigrade scale be  $10^{\circ} C$ ?



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**40.** Determine the area of the plane region formed by the graph of the equation x = 6, y - 3 = 0, x + 4 = 0 and y + 5 = 0.



**Exercise 3 Select The Correct Answer Mcg** 

**1.** (i) The point (10-7) lie on the

- A. first quadrant
- B. second quadrant
- C. third quadrant
- D. fourth quadrant

#### **Answer: D**



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**2.** (ii) Which one of the following points lie on the second quadrant?

A. (0, -3)

B. 
$$(-3, -1)$$

C. 
$$(-3, 4)$$

D. 
$$(2, -5)$$

#### Answer: c



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**3.** (iii) Which one of the following points lie on the x-axis?

A. (0, 2)

B.(10,0)

C. 
$$(0, -5)$$

D. 
$$(-7, -3)$$

#### **Answer: b**



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**4.** (iv) Which one of the following points lie on the x-

axis?

A. 
$$(0, -5)$$

B. 
$$(-7, -5)$$

D. (2, -13)

Answer: a



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**5.** (v) The graph of the equation 2x+3=0 is

A. parallel to the x-axis

B. parallel to the y-axis

C. not parallel to the axis

D. passing through the origin

Answer: b

**6.** (vi) The graph of the equation ay+b=0 (a and b are constant and  $a \neq 0, b \neq 0$  )

A. is parallel to x-axis

B. is parallel to the y-axis

C. is not parallel to the axis

D. passing through the origin

Answer: a



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**7.** (vii) The graph of the equation 2x + 3y = 0

A. is parallel to x-axis

B. is parallel to the y-axis

C. passes through the origin

D. passes through the point (2,0)

#### Answer: c



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**8.** (viii) The graph of the equation cx+d=0 ( c and d are constant and  $c\neq 0$  ) will be the equation of the y-axis when

$$A.d = -c$$

$$\mathsf{B}.\,d=c$$

$$C. d = 0$$

$$\mathsf{D}.\,d=1$$

#### Answer: c



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**9.** (ix) The graph of the equation ay+b=0 ( a and b are constant and  $a\neq 0$  ) will be the graph of the x-axis when

$$A. b = a$$

$$B.b = -a$$

$$\mathsf{C}.\,b=2$$

$$D.b=0$$

#### Answer: d



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**10.** (x) If the point (a,b) be one the second quadrant, then which one of the following is correct?

A. ab>0

 $\mathsf{B.}\,ab<0$ 

$$\mathsf{C}.\,ab\geq 0$$

$$\mathrm{D.}\,ab\leq 0$$

#### **Answer:** b



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**11.** (xi) Which one of the following straight lines is parallel to the x-axis?

A. 
$$x=2$$

$$\mathsf{B.}\,y+3=0$$

$$\mathsf{C.}\,2x=3y$$

D. 
$$x + y = 1$$

### Answer: b



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**12.** (xii) Which one of the following straight lines is parallel to the y-axis?

A. 
$$x = k(k = \text{constant})$$

B. 
$$y + 7 = 0$$

$$\mathsf{C}.\,x=y$$

$$D. xy = 1$$



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**13.** (xiii) The point of intersection of the straight line ax+by=c on the x-axis is

A. 
$$\left(\frac{c}{a}, 0\right)$$

B. 
$$\left(-\frac{c}{a},0\right)$$

C. 
$$\left(0, \frac{c}{a}\right)$$

D. 
$$\left(0, -\frac{c}{a}\right)$$

## Answer: a

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14. (xiv) The point of intersection of the straight line

px+sqy=r on the y-axis is

A. 
$$\left(\frac{r}{p},0\right)$$

$$\mathsf{B.}\left(\frac{r}{q},0\right)$$

$$\mathsf{C.}\left(0,\frac{r}{p}\right)$$

D.

Answer: d



**15.** (xv) Which one of the following straight line passes through the origin ?

A. 
$$y=cx+d(c 
eq 0, d 
eq 0 ext{ and } c, d$$
 are constants)

В.

$$(k-1)x+(k+1)y=0 (k= ext{constant}, k
eq -1)$$

$$\mathsf{C}.\,y = mx + c(m, c ext{are constant.}\,C 
eq 0)$$

D. 
$$y=lpha(lpha {
m constant},lpha
eq 0)$$

## Answer: b



**16.** (xvi) If the straight lines  $\sqrt{p}x+\sqrt{p}y=r$  passes through the point  $\left(\sqrt{p},\sqrt{q}\right)$  then which one of the followings is correct ?

A. 
$$\sqrt{p}+\sqrt{q}=r$$

$$\mathsf{B}.\,p+q=r$$

$$\mathsf{C.}\,p^2+q^2=r$$

D. 
$$p + q = r^2$$

## Answer: b



**17.** (xvii) The distance of the point (-7, -9) from the x-axis is

- A. -7 units
- B. 7 units
- $\mathsf{C.}-9$  units
- D. 9 units

#### Answer: d



**18.** (xviii) if  $x^2+y^2=0$  then the distance of the point (x,y) form the y-axis is

A.  $x^2$  units

B. O units

 $C. y^2$  units

D. Undetermined

#### Answer: b



19. (

(xix) The

 $x^2+y^2-2px-2qy+p^2+q^2=0$  passes through

straight

line

the point

A. 
$$(-p, -q)$$

B. 
$$(-p, 0)$$

C. 
$$(0, -q)$$

#### Answer: d



**20.** (xx) The polar co-ordinates of the point  $(\sqrt{3},1)$  is

A. 
$$\left(2, \frac{\pi}{3}\right)$$

$$\mathsf{B.}\left(2,\,\frac{\pi}{6}\right)$$

C. 
$$\left(2, \frac{\pi}{4}\right)$$

D. 
$$\left(2, \frac{\pi}{2}\right)$$

**Answer: B** 



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**Exercise 3 Short Answer Type Questions** 

1. (i) Write the co-ordinates of a point which is equidistant from the axes and lie on the third quadrant.



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**2.** (ii) Find the value of t if the point  $(-t, t^2 + t + 1)$ is equidistant from the axes.



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**3.** (iii) Find the value of  $\left(\frac{1}{a} + \frac{1}{b}\right)$  if the three points (a, 0), (0, b) and (1, 1) are collinear.

- **4.** (iv) Find the value of  $\left(\frac{1}{x},\frac{1}{y}\right)$  if the point (x,0),(0,y) and (-1,-1) are collinear.
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- **5.** (v) Determine the sum of the squares of the intersections of the axes intercepted by the straight line  $\sqrt{2x}+\sqrt{3y}=\sqrt{6}.$ 
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**6.** (vi) Find the value of t if the point  $(2, t^2 - 5t - 6)$  lie on the x-axis.



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**7.** (vii) Find the values of k for which the point  $\left(k^2-6k+8,7\right)$  lie on the y-axis.



**8.** (viii) Determine the coordinates of a point on the straight line x-5y+24=0 when the ordinate of the point is one-third of its absciass.

**9.** (ix) Find the value of a if the straight line 10x+(a-1)y=11(a-3) passes through the origin.



**10.** (x) Find the area of the triangle formed by the straight line  $2\sqrt{ax}+y=a$  with the co-ordinates axes.



**11.** (xi) Find the equation of a staright line passing through  $(k,\,-7)$  and parallel to the x-axis.



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**12.** (xii) Find the equation of a straight line passing through (-a,0) and parallel to the y-axis.



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**13.** (xiii) Find the area of the quadrilateral formed by the straight lines

 $x=0,y=0,y+3=0 \,\, \mathrm{and} \,\, x=1$  with the help of graphs.



14. (xiv) Determine the polar co-ordinates of the point whose Cartesian co-ordinates are (1, 1).



15. (xv) Determine the Cartesian co-ordinates of the point whose polar co-ordinates are  $\left(\sqrt{2}, \frac{\pi}{2}\right)$ .



**16.** (xvi) The distance of a point from the x-axis is 7 units on the negative directions and the distance from the y-axis is 8 units on the positive direction. Find the co-ordinates or the point.



- 17. (xvii) Express the following statements in the form of simultaneous linear equations:
- (a) If 2 is added to both the numerator and denominator of a fraction it becomes  $\frac{5}{7}$  and If 1 is substracted from both the numerator and denominator the value of the fraction becomes  $\frac{1}{2}$ .

**18.** (xvii) Express the following statements in the form of simultaneous linear equations :

(b) The one's unit digit of a two-digit number is twice of it's ten's unit digit. The number obtained by reversing the digits of the number is 18 more than the original number.



**Exercise 3 Long Answer Type Questions** 

1. Draw the graphs of the following equations: (i)

$$y = 7$$



**2.** Draw the graphs of the following equations: (ii)

$$x = -5$$



**3.** Draw the graphs of the following equations: (iii)  $y = \frac{1}{2}x$ 



4. Draw the graphs of the following equations : (iv)

$$\frac{x}{4} + \frac{y}{3} = 1$$



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5. Draw the graphs of the following equations: (v)

$$y = \frac{3 - x}{4}$$



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6. Draw the graphs of the following equations: (iv)

2x - 3y = 6

7. Draw the graphs of the following equations : (vii)

$$x = 7(y+1)$$



8. Draw the graphs of the following equations : (viii)

$$5x + 3y = 8$$



**9.** (a) Draw the graph of the equation 2y-3x=7 Also find the value of y when  $x=2\frac{1}{2}$  and the value of x when  $y=3\frac{1}{2}$  from the graph.



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10. (b) Draw the graph of the expression  $\frac{2x+7}{3}$ . Also, find the value of the expression when x=4 and the value of x for which the value of the expression is 0 from the graph.



**11.** Express the following statements in the form of linear equations of two variables and draw the graphs of each of the equations :

(i) The product of two numbers is 10.



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**12.** Express the following statements in the form of linear equations of two variables and draw the graphs of each of the equations :

(ii) The perimeter of a rectangular garden is 200 m.



**13.** Express the following statements in the form of linear equations of two variables and draw the graphs of each of the equations :

(iii) At present, the age of Debleena's father is 42 year more than that of Debleena.



- **14.** Express the following statements in the form of linear equations of two variables and draw the graphs of each of the equations :
- (iv) If 2 added to both the numerator and denominator of a fraction it becomes  $\frac{4}{5}$ .



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**15.** Draw the graphs of the following simultaneous linear equations and find the point of intersection of each pair:

(i) 
$$x = 0$$
 and  $2x + 3y = 15$ 



**16.** Draw the graphs of the following simultaneous linear equations and find the point of intersection of each pair:

(ii) 
$$x + y = 12$$
 and  $x - y = 2$ .



**17.** Draw the graphs of the following simultaneous linear equations and find the point of intersection of each pair:

(iii) 
$$4x - y = 3$$
 and  $2x + 3y = 5$ 



**18.** Draw the graphs of the following simultaneous linear equations and find the point of intersection of each pair:

(iv) 
$$3x - 2y = 1$$
 and  $2x - y = 3$ .



- **19.** Express the following statements in the form of simultaneous linear equations and solve them by drawing graphs:
- (i) The sum of two numbers is 12 and their difference is 4. Find the numbers.



- **20.** Express the following statements in the form of simultaneous linear equations and solve them by drawing graphs:
- (ii) At present the age of a father is 28 years more

than that of his son. After 10 years the age of father will be 3 times of the age of his son. Find the present ages of both father and son.



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**21.** Express the following statements in the form of simultaneous linear equations and solve them by drawing graphs:

(iii) If 3 is subtracted from the numerator and 2 is added to the denominator of a fraction it becomes  $\frac{1}{3}$ .

Again, if 4 is substracted from the numberator and 2 is subtracted form the denominator of the same fraction, it becomes  $\frac{1}{2}$ . Determine the fraction.

**22.** Express the following statements in the form of simultaneous linear equations and solve them by drawing graphs:

(iv) A boat travels 56 km in 4 hours in favour of the current and 48 km in 8 hours against the current. Find the velocity of the boat in steady water and the velocity of the current.



**23.** Express the following statements in the form of simultaneous linear equations and solve them by drawing graphs:

(v) The perimeter of the rectangular garden is 60 metres. If its length be 2 metres ore and breadth be 2 metres less than that of the previous, then the area of the garden becomes 24 sq. metres less than the previous area. Determine the length and breadth of the garden.



- (i) 2x + 3y = 12, 2x = 3y
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**25.** Solve the following simultaneous linear equations by drawing graphs for them :

(ii) 
$$3x - 4y = 18, 7x + y = 11$$

(iii) 
$$4x - y = 3$$
,  $2x + 3y = 5$ 



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**27.** Solve the following simultaneous linear equations by drawing graphs for them :

(iv) 
$$3x - 2y = 6$$
,  $3x - 2y = 3$ 



(v) 
$$2x + 3y = 15, 3x - 2y = 3$$



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**29.** Solve the following simultaneous linear equations by drawing graphs for them :

(vi) 
$$5x - 2y = 1, 3x + 5y = 13$$



(vii) 
$$2x + 3y = 12, 2x - y = 4$$



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**31.** Solve the following simultaneous linear equations by drawing graphs for them :

(viii) 
$$4x - 3y = 0, 3x + 4y = 25$$



(ix) 
$$3x + 4y = 12$$
,  $5x - 4y = 20$ 



**33.** Solve the following simultaneous linear equations by drawing graphs for them :

(x) 
$$4x + 3y = 15, x - y = 2$$



(xi) 
$$3x - y = 5$$
,  $4x + 3y = 11$ 



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**35.** Solve the following simultaneous linear equations by drawing graphs for them :

(xii) 
$$3x + 2y = 6$$
,  $2x - 3y = 17$ 



(xiii) 
$$3x + 2y = 1, 2x - y = 3$$



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**37.** Solve the following simultaneous linear equations by drawing graphs for them :

(xiv) 
$$3x + 5y = 12, 3x - 5y + 18 = 0$$



38. Solve the following simultaneous linear equations

by drawing graphs for them:

$$\text{(xv) } \frac{3x-1}{2} = \frac{2x+6}{2}$$



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**39.** Solve the following simultaneous linear equations by drawing graphs for them :

(xvi) 
$$2x + 3y = -13$$
,  $3x - 2 = 0$ 



(xvii) 
$$3x + 2y = 5, 2x - 3y = 12$$



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**41.** The sum of two numbers is 1 If one of them is added to the thrice of the other, the result of the addition becomes 3. Find the two numbers with the help of graph.



**42.** What principal will amount of Rs.560 in 3 years at 4% per annum simple interest?



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**43.** A monkey climbing up a pole ascends 6 metres and slips 3 metres in alternate minutes. If the pole is 60 metres high, how long will it take the monkey to reach the top?



**45.** Find the angle in radian through which a pendulum swings if its length is 75cm and the tip describes an arc of length 10cm.



**46.** (a) Find the area of the triangle formed by the graph of the equations

$$x + y = 0, 3x = 5y$$
 and  $y = 3x + 12$ .



**47.** (b) (i) Find the area of the plane region formed by the graphs of the equations  $x=4, 3x+2y=32 \ {
m and} \ 7x-4y=40.$ 



**48.** (b) (ii) Find the area of the plane region formed by the graphs of the simultaneous linear equations 2x+3y=12 and 2x+3y=36 with the coordinates axes.



**49.** (b) (iii) Find the area of the triangle formed by joining the points `(4,8),(-4,3) and (12,2) successively.



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**50.** (c) Find the area of the quadrilateral formed by the four points (4,3),(2,5),(0,2) and (2,0) successively.

