1. Find two solutions of the linear equation $5x - 4y = -8$

2. Draw the graph of the linear equation $2x + 3y = 12$. At what points the graph of the equation cuts the $x - axis$ and the $y$ axis

3. Draw the graphs of the equations $x + y = 6$ and $2x + 3y = 16$ on the same graph paper. Find the coordinates of the points where the two lines intersect

4. Draw the graph of the following equation $2(x + 1) = 3(y - 1) - 4$ and check whether the point $(3, -1)$ lies on the line

5. Draw the graph of $y = -5$ and $y = 5$ on the same graph. Are the lines parallel? Find the point of intersection of two lines

6. The taxi fare in a city is such that Rs 50 is fixed amount and Rs 16 per km is charged. Taking the distance covered as $x$ km and total fare as Rs $y$, write a linear equation in $x$ and $y$

7. If present age of son and father are expressed by $x$ and $y$ respectively and after ten years father will be twice as old as his son. Write the relation between $x$ and $y$

8. If the cost of 5 tables exceeds the cost of eight chairs by Rs. 150. Write the linear equation in two variables to represent the statement. Also find the cost of 1 table if the cost of one chair is Rs. 240

9. Give the geometric representation of $2x + 1 = x - 4$ as an equation in (a) one variable (b) two variable

10. Give the equation of two lines passing throw $(2, 14)$. How many more such lines are there and why

11. If $(2, 5)$ is a solution of the equation $2x + 3y = m$, find the value of $m$ 
   \[ m = 19 \]

12. For what value of $k$ does the point $(k, -3)$ lies on the line $3x - y = 6$ 
   \[ k = 1 \]

13. Write $13x - 12y = 25$ as $y = mx + c$. Hence find $m$ and $c$. Verify if $x = 1, y = 1$ is a solution 
   \[ m = 13/12, c = -25/12 \]

14. If $(2, 3)$ and $(4, 0)$ lie on the graph of the equation $ax + by = 1$. Find the value of $a$ and $b$. Plot the graph of the equation obtained 
   \[ a = 1/4, b = 1/6 \]

15. Express $y$ in terms of $x$, given that $x/5 + 2y = 3$. Check whether $(-5, 2)$ is isolution of the given equation

16. Write each of the following as an equation in two variables (in standard form):
   \[ (a) \ x = -5 \quad (b) \ y = 2 \quad (c) \ 2x = 3 \quad (d) \ 5y = 2 \]

16. Frame a linear equation in the form $ax + by + c = 0$ by using the given values of $a$, $b$ and $c$: $a = -2$, $b = 3$, $c = 4$
17. Solve for x:
   a) \( \frac{3x + 2}{7} + \frac{4(x + 1)}{5} = \frac{2(2x + 1)}{3} \)  \((x = 4)\)
   b) \( 8x + \frac{21}{4} = 3x + 7 \)  \((7/20)\)

19. Graph of linear equation \( 4x = 5 \) in a plane is parallel to ..........axis

20. When the linear equation \( 2x = 3/8(y - 1) \) is written in the standard form \( ax + by + c = 0 \)  
    Then \( a, b, c \) are .........., .......... and ..........

21. The geometric representation of \( 2y + 5 = 0 \) in two variables is a straight line parallel to .......... axis

22. Coefficient of \( y \) in the equation: \( 3(2x - 1/3y) = 0 \) is equal to
   a) 3   b) 1   c)-3   d)-1

23. A linear equation in two variable has a) infinitely many solution   b) unique solution   
    c) no solution   d) none of these

24. Which of the following pair is a solution of the equation \( 2x - 3y = 7 \)
   a) \((5,-1)\)   b) \((1, 5)\)   c) \((0, 2)\)   d) none of these

25. The equation of a line passing through the origin is of the form
   a) \( y = kx \)   b) \( x + y = k \)   c) \( x - y = k \)   d) none of these

26. Any point on \( y \) axis is of the form
   a) \((x, 0)\)   b) \((0, y)\)   c) \((y, 0)\)   d) none of these

27. The graph of \( y = mx \) is a straight line:
   a) parallel to \( x \) axis   b) parallel to \( y \) axis   c) passing through origin   d) coincides with \( x - \) axis

28. For the equation \( 5x + 8y = 50 \), if \( y = 10 \), then the value of \( x \) is
   a) 6   b) \(-6\)   c) 12   d) \(-12\)

29. The equation \( x = 7 \), in two variables can be written as:
   a) \( 1x + y = 7 \)   b) \( 1x + 0y = 7 \)   c) \( 0x + 1y = 7 \)   d) \( 0x + 0y = 7 \)

30. Equation of line parallel to \( x - \) axis and \( 2 - \) units above the origin is:
   a) \( x = 2 \)   b) \( x = -2 \)   c) \( y = 2 \)   d) \( y = -2 \)

31. Which of the following is not a form of linear equation in two variables?
   a) \( ax + by + c = 0 \)   b) \( ax + 0y + b = 0 \)   d) \( 0x + ay + b = 0 \)   d) \( 0x + 0y + 5 = 0 \)