



Class 11 Mathematics | Straight Lines

MCQ WORKSHEET • 15 questions • Choose one correct option • Suggested time: 25 minutes

1. The slope of the line through (1,2) and (3,6) is:

A. 4 B. 2 C. $1/2$ D. -2

2. The slope of $3x+2y=6$ is:

A. $3/2$ B. $-3/2$ C. $-2/3$ D. $2/3$

3. The x-intercept of $2x+3y=12$ is:

A. 6 B. 12 C. 4 D. -6

4. The line of slope 3 through (1,2) is:

A. $y=3x+1$ B. $y=-3x+5$ C. $y=3x-1$ D. $y=2x+3$

5. A line perpendicular to $y=2x+1$ has slope:

A. 2 B. -2 C. $1/2$ D. $-1/2$

6. The angle between lines of slopes 0 and 1 is:

A. 45° B. 60° C. 30° D. 90°

7. The distance of (3,4) from $3x+4y-5=0$ is:

A. 20 B. 1 C. 5 D. 4

8. The distance between $x=2$ and $x=-3$ is:

A. 1 B. $\sqrt{5}$ C. -5 D. 5

9. Which point lies on $x/3+y/2=1$?

A. (0,3) B. (3,0) C. (3,2) D. (2,1)

10. Lines $2x+3y=7$ and $4x+6y=1$ are:

A. Perpendicular B. Coincident
C. Parallel distinct D. Intersecting at origin

11. The equation of the y-axis is:

A. $x=1$ B. $y=0$ C. $x=y$ D. $x=0$

12. A line makes 120° with the positive x-axis. Its slope is:

A. $-1/\sqrt{3}$ B. $1/\sqrt{3}$ C. $\sqrt{3}$ D. $-\sqrt{3}$

13. The intersection of $x+y=5$ and $x-y=1$ is:

A. (4,1) B. (3,2) C. (2,3) D. (1,4)

14. The line with intercepts 4 and 3 on the axes is:

A. $x+y=7$ B. $3x+4y=7$
C. $4x+3y=12$ D. $3x+4y=12$

15. For lines $y=mx+2$ and $3x-y+4=0$ to be parallel, m is:

A. $-1/3$ B. -3 C. 3 D. $1/3$

ANSWER KEY — check after completing all 15 questions

1.B 2.B 3.A 4.C 5.D 6.A 7.D 8.D 9.B 10.C 11.D 12.D 13.B 14.D 15.C

Original exam-style practice • Reference notes: www.physics.guru/cbse-practice-papers/ • Not an official paper