



SOLUTIONS OF WORKSHEET-12 <u>SUBJECT – MATHEMATICS</u> <u>1st - Term</u>

Chapter: Co-ordinate Geometry

Class: XI

Topic: Straight Lines

Date: 08.08.2020

<u>Choose the correct option</u>

<u>(1 x 15=15)</u>

- 1. The slope of the x-axis is
 - a. -1
 - b. 0
 - c. undefined
 - d. 1
- 2. The slope of a line parallel to x-axis is
 - a. 1
 - b. 0
 - c. -1
 - d. undefined
- 3. The slope of the y-axis is
 - a. undefined
 - b. 0
 - c. 1
 - d. -1
- 4. The slope of a line parallel to y-axis is
 - a. 0
 - b. 1
 - c. -1
 - d. Undefined

- 5. The area of the triangle which the st. line 3x+4y-12=0 makes with the coordinate axes is
 - a. 4 sq. units
 - b. 5 sq. units
 - c. 6 sq. units
 - d. 6.5 sq. units
- 6. The equation of the line which makes an angle of 45 degree with x-axis and cuts the y-axis at (0, 3) is
 - a. y=x+3
 - b. y=3
 - c. x=3
 - d. None of these
- 7. The magnitude of the angle which the line y = -x makes with the positive direction of x-axis is
 - a. 45 degree
 - b. 90 degree
 - c. 135 degree
 - d. 225 degree
- 8. The condition for which the st. line ax+by+c =0 will be parallel to x-axis is
 - a. $a \neq 0, b = 0$ b. $a = 0, b \neq 0$ c. $a \neq 0, b \neq 0, c = 0$ d. $c \neq 0, b = 0$
- 9. The condition for which the st. line ax+by+c =0 will pass through the origin is
 - a. $a \neq 0, b = 0$ b. $a = 0, b \neq 0$ c. $a \neq 0, b \neq 0, c = 0$ d. $c \neq 0, b = 0$

- 10. If the intercepts on the x-axis and y-axis of a st. line be (-4) and 6 respectively, then the equation of the line is
 - a. 3x-2y=12
 - b. 3x-2y+12=0
 - c. 3x+2y=12
 - d. 3x+2y+12=0

11. The intercepts of the st. line 7x+8y+56=0 on x and y axes are respectively -

- a. (-8) & (-7)
- b. 8&7
- c. (-7) & (-8)
- d. 7&8

12. The perpendicular distance of the straight line 3x+4y+15=0 from the origin is –

- a. 3 unit
- b. 4 unit
- c. 5 unit
- d. 15 unit
- 13. The st. line joining the points (-3, -4) & (2, 5) is
 - a. 5x-9y=21
 - b. x-2y+8=0
 - c. 9x-5y=-7
 - d. 4x-3y=-7

14. The equation of the st. line whose slope is 1 and intercept on x-axis is (-3), is -

- a. x-y+3=0
- b. y-x+3=0
- c. x+y+3=0
- d. x+y-3=0

15. The inclination of the line joining the points $(3, -\sqrt{3})$ and $(\sqrt{3}, -1)$ is –

- a. 150 degree
- b. 30 degree
- c. 60 degree
- d. 120 degree

Prepared by :-

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