



**ST. LAWRENCE HIGH SCHOOL**  
A JESUIT CHRISTIAN MINORITY INSTITUTION



**WORKSHEET-12**  
**SUBJECT – MATHEMATICS**  
**1st - Term**

**Chapter: Co-ordinate Geometry**

**Class: XI**

**Topic: Straight Lines**

**Date: 08.08.2020**

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**Choose the correct option** **(1 x 15=15)**

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 –
- 4 sq. units
  - 5 sq. units
  - 6 sq. units
  - 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 –
- $y=x+3$
  - $y=3$
  - $x=3$
  - None of these
7. The magnitude of the angle which the line  $y = -x$  makes with the positive direction of x-axis is –
- 45 degree
  - 90 degree
  - 135 degree
  - 225 degree
8. The condition for which the st. line  $ax+by+c=0$  will be parallel to x-axis is –
- $a \neq 0, b = 0$
  - $a = 0, b \neq 0$
  - $a \neq 0, b \neq 0, c = 0$
  - $c \neq 0, b = 0$
9. The condition for which the st. line  $ax+by+c=0$  will pass through the origin is –
- $a \neq 0, b = 0$
  - $a = 0, b \neq 0$
  - $a \neq 0, b \neq 0, c = 0$
  - $c \neq 0, b = 0$

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 –
- $3x-2y=12$
  - $3x-2y+12=0$
  - $3x+2y=12$
  - $3x+2y+12=0$
11. The intercepts of the st. line  $7x+8y+56=0$  on x and y axes are respectively –
- $(-8)$  &  $(-7)$
  - $8$  &  $7$
  - $(-7)$  &  $(-8)$
  - $7$  &  $8$
12. The perpendicular distance of the straight line  $3x+4y+15=0$  from the origin is –
- 3 unit
  - 4 unit
  - 5 unit
  - 15 unit
13. The st. line joining the points  $(-3, -4)$  &  $(2, 5)$  is –
- $5x-9y=21$
  - $x-2y+8=0$
  - $9x-5y=-7$
  - $4x-3y=-7$
14. The equation of the st. line whose slope is  $1$  and intercept on x-axis is  $(-3)$ , is –
- $x-y+3=0$
  - $y-x+3=0$
  - $x+y+3=0$
  - $x+y-3=0$
15. The inclination of the line joining the points  $(3, -\sqrt{3})$  and  $(\sqrt{3}, -1)$  is –
- 150 degree
  - 30 degree
  - 60 degree
  - 120 degree

**Prepared by :-**

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