

Chapter-12: Simple simultaneous Equations with two Variables

256. Which of the values satisfy the equation $x + 3y = 5$?
 (a) (5, 0), (1, -2) (b) (2, 1), (5, 0)
 (c) (2, 1), (0, -5) (d) (1, 5), (0, 2) **(b)**
257. In which condition, the system of equations $a_1x + b_1y = c_1$, $a_2x + b_2y = c_2$ become consistent and mutually independent?
 (a) $\frac{a_1}{a_2} \neq \frac{b_1}{b_2}$ (b) $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$
 (c) $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$ (d) $\frac{a_1}{b_1} = \frac{a_2}{b_2}$ **(a)**
258. In the system of equations, $x - 2y = 8$ and $3x - 2y = 4$, what is the value of x ?
 (a) -5 (b) -2 (c) 2 (d) 5 **(b)**
259. Which is the solution of equation $ax + by = ab$ and $ax - by = ab$?
 (a) (a, b) (b) (b, a)
 (c) (b, 0) (d) (0, b) **(c)**
260. $2x + y = 5$ (i)
 $3x - 2y = 11$ (ii)
 Which the value of (x, y)?
 (a) (3, -1) (b) (3, 1)
 (c) (2, 1) (d) (5, 2) **(a)**
261. If $\frac{x}{-14} = \frac{y}{-28} = \frac{1}{-14}$, (x, y) = what?
 (a) (1, 2) (b) (2, 1)
 (c) (-1, -2) (d) (-2, -1) **(a)**
262. In which quadrant is the point (3, -5) located?
 (a) 1st (b) 2nd (c) 3rd (d) 4th **(d)**
263. If we set $x = -1$ in the equation, $7x + y = 5$; the corresponding point of the graph tells on which quadrant?
 (a) 1st (b) 2nd (c) 3rd (d) 4th **(b)**
264. Which one is the point of a straight line $3x = y + 3$?
 (a) (0, -2) (b) (-2, 3)
 (c) (1, 1) (d) (2, 3) **(d)**
265. Which equation goes through main point?
 (a) $2x = 3y + 2$ (b) $x + 3y = 5$
 (c) $3x = 8y + 2$ (d) $4x = 3y$ **(d)**
266. The digit of units place of a number consisting of two digits is x and the digit of tens place is y . The summation of the digits is 8 and multiplication is 12 and $x > y$, what is the number?
 (a) 62 (b) 43 (c) 34 (d) 26 **(d)**
267. A rectangular's adjacent side's length is 3 meter and 4 meter. What is the length of its diagonal?
 (a) 5 (b) 7
 (c) 12 (d) 25 **(a)**
268. $-\frac{1}{3}x - y = 0$, $x - 3y = 0$, the system of equation,
 i. consistent ii. independent
 iii. no solution
 Which one of the following is correct?
 (a) i & ii (b) i & iii
 (c) ii & iii (d) i, ii & iii **(a)**