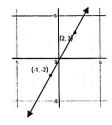
- 1) Which ordered pair is a solution of 3x y = 10?
  - A) (-1, 3)
- B) (2, -1)
- C) (3, 2)
- (3, -1)

- 2) What is the slope of all vertical lines?
  - A)

- B) 0
- (c)
- undefined
- D) -1

- 3) Find the slope of the line passing through (5, 3) and (-3, 4)
  - A)  $-\frac{1}{8}$
- B) -8
- $C) \frac{7}{8}$
- D)  $-\frac{7}{8}$

4) What is the slope of this line?



- A)  $-\frac{5}{3}$
- B)  $\frac{3}{5}$

- c) =
- D)  $-\frac{3}{5}$

- 5) Find the x-intercept and y-intercept of 4x 3y = 12
  - A) x-int: (-3, 0), y-int: (0, 4)
  - C) x-int: (4, 0), y-int: (0, 3)

- B) x-int: (3, 0), y-int: (0, -4)
- b) x-int: (-4, 0), y-int: (0, 3)
- 6) Find the slope and y-intercept of 3x + y = 9
  - A) m = 3, b = 9
  - (c) m = -3, b = 9

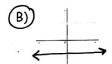
- B) m = -3, b = -9
- D) m = 3, b = -9

- 7) Rewrite the equation -2x + 5y = 13
  - A)  $y = -\frac{2}{5}x + \frac{13}{5}$
  - $C) y = \frac{2}{5}x \frac{13}{5}$

- B)  $y = -\frac{2}{5}x \frac{13}{5}$
- $y = \frac{2}{5}x + \frac{13}{5}$

8) Which is the graph of y = 3?

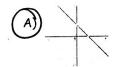








9) Graph the equation y = -x + 2.



B) ....





- 10) What is the equation of a line with a slope of -3 that passes through the point (2, -1)?
  - (A) y = -3x + 5

B) y = -3x - 7

C) y = -3x - 1

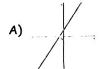
- D) y = -3x + 1
- 11) A company charges a flat rate of \$25 to rent a bike and then \$12 per hour. Write a linear equation to model the situation. Use slope-intercept form.
  - A) y = 25x + 12

(B) y = 12x + 25

C) x + 12y = 25

D) 12x = 25y

12) Graph the equation  $y = \frac{2}{3}x - 1$ 









| 13) Use substitution to solve the system:   |  |               | 6x - 5y = -21<br>y - $4x = 7$ |                          |            |                               |       |          |             |
|---|--|---------------|-------------------------------|--------------------------|------------|-------------------------------|-------|----------|-------------|
| A)  | (-3, 1)  | (B)           | (-1, 3                        | ·)                       | C)         | (4, 0)                        |       | D)       | (-6, 5)     |
| 14) Use el  | imination to solve th  | nis syst      | em:                           | x - 2y = -1<br>2x + 5y = |            |                               |       |          |             |
| A)  | (-9. 3)  | B)            | (7, -3                        | 3)                       | C)         | (9, -7)                       |       | (b)      | (-7 3)      |
| 15) Determine if the system has no solution, many solutions, or one solution. If it is one solution, find the solution. $3x + 2y = 11$ $9x + 6y = 33$ |  |               |                               |                          |            |                               |       |          |             |
| (A)   | many solutions<br>one solution (3, 1)  |               |                               |                          | B)         | no solution<br>one solutio    |       | -1)      |             |
|   | nith took her family :<br>\$6. If she bought 7<br>a - c = 7<br>10a + 6c = 54 |               |                               |                          |            |                               | tion? | d childr | en's        |
| <i>C</i> )  | a + c = 7<br>10a + 7c = 378  |               |                               |                          | D)         | a + c = 7<br>6a + 10c = 5     | 54    |          |             |
| 17) Betwee  | en which two intege<br>5 and 6   | rs doe:<br>B) | s –√3<br>-5 an                |                          | <i>C</i> ) | 7 and -6                      |       | D) -5    | 5 and -6    |
| 18) Evaluate: $-\sqrt{64}$  |  |               |                               |                          |            |                               |       |          |             |
| A)  | -4   | B)            | 16                            |                          | (c)        | -8                            |       | D)       | 32          |
| 19) Evalua  | te: $37 - (\sqrt{3})^2$  | B)            | 40                            |                          | <i>C</i> ) | 28                            |       | D)       | 31          |
| 20) The vo<br>A)  | olume of a cube is 6<br>32 in.   | 4 cubic<br>B) | inches<br>8 in.               | s. What is t             | the length | th of one sid<br>4 in.        | e?    | D)       | 16 in.      |
| A)  | s the Pythagorean $a^{2} + c^{2} = b^{2}$ $b^{2} + c^{2} = a^{2}$            | Theore        | m?                            |                          | (B)        | $a^2 + b^2 = c^2$ $a + b = c$ |       |          |             |
| 22) A 26 foot ladder is leaning against a house. The ladder hits the wall at a height of 24 feet. How far away from the house is the ladder?          |  |               |                               |                          |            |                               |       |          |             |
| How far aw  | 25 foot  | B)            | 10 fo                         | ot                       | C)         | 50 foot                       |       | D) 2     | foot        |
| 23) Find th   | ne value of c.   |               | с                             |                          | A)         | $\sqrt{26}$                   |       | B)       | 4           |
|   | 5  |               | 3                             |                          | C)         | 2                             |       | (b)      | $\sqrt{34}$ |
| 24) A right triangle has legs of 8 and 15. What is the length of the hypotenuse?  |  |               |                               |                          |            |                               |       |          |             |
| A   | 17   | B)            | 7                             |                          | C)         | 12                            |       | D)       | 23          |
| 25) The ar<br>A)  | ea of a circle is 49<br>18   | π. Find<br>B) | the ro                        | adius.                   | <b>C</b> ) | 14                            |       | (d)      | 7           |