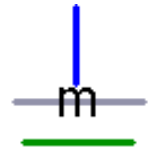
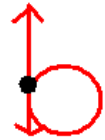


Directions: For the following equations, please identify

  $m$

1. the slope,  $m$

  $b$

2. the y-intercept,  $b$

$$y = \underline{m}x + \text{b}$$

$$y = \underline{m}x + \bullet$$

# Question 1

$$y = 2x + 1$$

$$\underline{m} =$$

$$\bullet =$$

$$y = \underline{m}x + \bullet$$

Answer 1

$$y = 2x + 1$$

$$\underline{m} = 2$$

$$\bullet = 1$$

$$y = \underline{-m}x + \bullet$$

## Question 2

$$y = -x$$

$$\underline{-m} =$$

$$\bullet =$$

$$y = \underline{m}x + \bullet$$

Answer 2

$$y = -x$$

$$y = -1x + 0$$

$$\underline{m} = -1$$

$$\bullet = 0$$

$$y = \underline{m}x + \bullet$$

## Question 3

$$y = x + 3.5$$

$$\underline{m} =$$

$$\bullet =$$

$$y = \underline{m}x + \bullet$$

Answer 3

$$y = x + 3.5$$

$$y = 1x + 3.5$$

$$\underline{m} = 1$$

$$\bullet = 3.5$$

$$y = \underline{m}x + \bullet$$

## Question 4

$$-4y = -5x + 8$$

$$\underline{m} =$$

$$\bullet =$$

$$y = \underline{m}x + \bullet$$

Answer 4

$$\cancel{-4}y = \cancel{-4} \frac{-5}{-4}x + \frac{8}{-4}$$

$$y = \frac{5}{4}x - 2$$

$$\underline{m} = \underline{5}$$

$$\bullet = -2$$

$$y = \underline{m}x + \bullet$$

## Question 5

$$y + 2x = 7$$

$$\underline{m} =$$

$$\bullet =$$

$$y = \underline{m}x + \bullet$$

Answer 5

$$y + \cancel{2x} = -2x + 7$$
$$\cancel{-2x}$$

$$y = -2x + 7$$

$$\underline{m} = -2$$

$$\bullet = 7$$

$$y = \underline{m}x + \bullet$$

## Question 6

$$-4y = -4x$$

$$\underline{m} =$$

$$\bullet =$$

$$y = \underline{m}x + \bullet$$

Answer 6

$$\frac{-4y}{-4} = \frac{-4x}{-4}$$

$$y = 1x + 0$$

$$\underline{m} = 1$$

$$\bullet = 0$$

$$y = \underline{m}x + \bullet$$

## Question 7

$$y + \frac{3}{5}x = 1$$

$$\underline{m} =$$

$$\bullet =$$

$$y = \underline{m}x + \text{y-intercept}$$

Answer 7

$$y + \frac{3}{5}x = -\frac{3}{5}x + 1$$

$$-\frac{3}{5}x$$

$$y = \underline{-\frac{3}{5}}x + 1$$

$$\underline{m} = -3$$

$$\text{y-intercept} = 1$$

$$y = \underline{m}x + \bullet$$

## Question 8

$$\frac{1}{2}y = 2x + 1$$

$$\underline{m} =$$

$$\bullet =$$

$$y = \underline{m}x + \bullet$$

Answer 8

$$\cancel{2} \cdot \cancel{\frac{1}{2}}y = (2x+1) \cdot 2$$

$$y = 4x + 2$$

$$\underline{m} = 4$$

$$\bullet = 2$$

$$y = \underline{m}x + \bullet$$

## Question 9

$$y = 3x$$

$$\underline{m} =$$

$$\bullet =$$

$$y = \underline{m}x + \bullet$$

Answer 9

$$y = 3x + 0$$

$$\underline{m} = 3$$

$$\bullet = 0$$

$$y = \underline{m}x + \bullet$$

## Question 10

$$5y = 5x - 1$$

$$\underline{m} =$$

$$\bullet =$$

$$y = \underline{m}x + \bigcirc$$

Answer 10

$$\frac{\cancel{5}y}{\cancel{5}} = \frac{\cancel{5}x}{\cancel{5}} - \frac{1}{5}$$

$$y = 1x - \frac{1}{5}$$

$$\underline{m} = 1$$

$$\bigcirc = -\frac{1}{5}$$

$$y = \underline{m}x + \bullet$$

## Question 11

$$-y = -x + 7$$

$$\underline{m} =$$

$$\bullet =$$

$$y = \underline{m}x + \bullet$$

Answer 11

$$-y = -x + 7$$

$$y = x - 7$$

$$y = 1x - 7$$

$$\underline{m} = 1$$

$$\bullet = -7$$

$$y = \underline{m}x + \bullet$$

## Question 12

$$2y = 2x + 9$$

$$\underline{m} =$$

$$\bullet =$$

$$y = \underline{m}x + \bigcirc$$

Answer 12

$$\frac{2}{2}y = \frac{2}{2}x + \frac{9}{2}$$

$$y = x + \frac{9}{2}$$

$$y = 1x + \frac{9}{2}$$

$$\underline{m} = 1$$

$$\bigcirc = \frac{9}{2}$$

$$y = \underline{m}x + \bullet$$

## Question 13

$$y - 9 = 2x + 1$$

$$\underline{m} =$$

$$\bullet =$$

$$y = \underline{m}x + \bullet$$

Answer 13

$$\begin{array}{r} y - 9 = 2x + 1 \\ + 9 \qquad + 9 \end{array}$$

$$y = 2x + 10$$

$$\underline{m} = 2$$

$$\bullet = 10$$

$$y = \underline{m}x + \bullet$$

## Question 14

$$y + 20x = -1$$

$$\underline{m} =$$

$$\bullet =$$

$$y = \underline{m}x + \bullet$$

Answer 14

$$y + \cancel{20x} = -20x - 1$$
$$\cancel{-20x}$$

$$y = -20x - 1$$

$$\underline{m} = -20$$

$$\bullet = -1$$

$$y = \underline{m}x + \bullet$$

# Question 15

$$-y = 5x - 9$$

$$\underline{m} =$$

$$\bullet =$$

$$y = \underline{m}x + \bullet$$

Answer 15

$$-y = 5x - 9$$

$$y = -5x + 9$$

$$\underline{m} = -5$$

$$\bullet = 9$$

$$y = \underline{m}x + \bullet$$

# Question 16

$$-3y = -6x - 15$$

$$\underline{m} =$$

$$\bullet =$$

$$y = \underline{m}x + \bigcirc$$

Answer 16

$$\frac{-3y}{-3} = \frac{-6x-15}{-3}$$

$$y = 2x + 5$$

$$\underline{m} = 2$$

$$\bigcirc = 5$$