

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Writing Linear Equations Answers

**Section I. Write an equation in slope-intercept AND standard form using the given information. SUPER EASY**

1.  $m = 5, b = -1$

$y = 5x - 1$        $5x - y = 1$

2.  $m = \frac{1}{4}, y - intercept = 7$

$y = \frac{1}{4}x + 7$        $x - 4y = -28$

3.  $m = \frac{-2}{3}, y - intercept = 5$

$y = \frac{-2}{3}x + 5$        $2x + 3y = 15$

4.  $m = -\frac{4}{5}, b = \frac{3}{5}$

$y = -\frac{4}{5}x + \frac{3}{5}$        $4x + 5y = 3$

**Section II. Write an equation in slope-intercept AND standard form using the given information. MEDIUM**

5.  $m = -4, \text{ and passes thru } (9, -2)$

$y = -4x + 34$        $4x + y = 34$

6.  $m = 2, \text{ and passes thru } (0, -5)$

$y = 2x - 5$        $2x - y = 5$

7.  $m = -\frac{1}{5}, \text{ and passes thru } (-5, -1)$

$y = -\frac{1}{5}x - 2$        $x + 5y = -10$

8.  $m = \frac{3}{2}, \text{ and passes thru } (2, 2)$

$y = \frac{3}{2}x - 1$        $3x - 2y = 2$

9.  $m = -\frac{1}{4}, \text{ and passes thru } (0, 6)$

$y = -\frac{1}{4}x + 6$        $x + 4y = 24$

10.  $m = 0, \text{ and passes thru } (4, -7)$

$y = -7$

11.  $m = \frac{2}{3}, \text{ and passes thru } (12, 11)$

$y = \frac{2}{3}x + 3$        $2x - 3y = -9$

12.  $m = \text{undefined}, \text{ and passes thru } (-21, 8)$

$x = -21$

**Write an equation in A) point slope, B) slope-intercept AND C) standard form using the given information. DIFFICULT**

12.  $(4, 2)$  and  $(0, 1)$

- A)  $y - 2 = \frac{1}{4}(x - 4)$  or  $y - 1 = \frac{1}{4}(x - 0)$   
 B)  $x - 4y = -4$   
 C)  $y = \frac{1}{4}x + 1$

13.  $(8, 3)$  and  $(2, 0)$

- A)  $y - 3 = \frac{1}{2}(x - 8)$  or  $y - 0 = \frac{1}{2}(x - 2)$   
 B)  $x - 2y = 2$   
 C)  $y = \frac{1}{2}x - 1$

15.  $(8, 1)$  and  $(-4, 1)$

- A)  $y = 1$   
 B)  $y = 1$   
 C)  $y = 1$

16.  $(0, -1)$  and  $(3, -5)$

- A)  $y + 1 = -\frac{4}{3}(x - 0)$  or  $y + 5 = -\frac{4}{3}(x - 3)$   
 B)  $4x + 3y = -3$   
 C)  $y = -\frac{4}{3}x - 1$

17.  $(-1, 3)$  and  $(2, 6)$

- A)  $y - 3 = 1(x + 1)$  or  $y - 6 = 1(x - 2)$   
 B)  $x - y = 4$   
 C)  $y = x - 4$

18.  $(-4, 2)$  and  $(2, 1)$

- A)  $y - 2 = -\frac{1}{6}(x + 4)$  or  $y - 1 = -\frac{1}{6}(x - 2)$   
 B)  $x + 6y = 8$   
 C)  $y = -\frac{1}{6}x + 1\frac{1}{3}$

19.  $(3, 1)$  and  $(-6, 4)$

- A)  $y - 1 = -\frac{1}{3}(x - 3)$  or  $y - 4 = -\frac{1}{3}(x + 6)$   
 B)  $x + 3y = 6$   
 C)  $y = -\frac{1}{3}x + 2$

20.  $(-7, 12)$  and  $(-7, -15)$

- A)  $x = -7$   
 B)  $x = -7$   
 C)  $x = -7$