

***Slope-intercept Form and Point-slope Form*** **Write the slope-intercept form of the equation of each line.**

1)  $-14x + y = 7$

7)  $11x - 8y = -48$

2)  $-2(2x + y) = 28$

8)  $3x - 2y = -16$

3)  $-11x - 7y = -56$

9)  $2y = -6x - 8$

4)  $9x + 35 = -5y$

10)  $2y = -4x + 10$

5)  $x - 3y = 6$

11)  $2y = -2x - 4$

6)  $13x - 11y = -12$

12)  $6x + 5y = -15$

 **Find the slope of the following lines. Name a point on each line.**

13)  $y = 2(x + 3)$

18)  $y - 5 = 3x$

14)  $y + 2 = \frac{2}{3}(x - 4)$

19)  $y - 3 = -2(x - 4)$

15)  $y + 3 = -1.5x$


20)  $y + 3 = 0$

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

21)  $y + 2 = 3(x + 6)$

17)  $y + 2 = 1.3(x + 1)$

22)  $y - 7 = -4(x - 2)$

 **Write an equation in point-slope form for the line that passes through the given point with the slope provided.**

23)  $(1, 2), m = 7$

27)  $(-1, 4), m = 4$

24)  $(3, 5), m = \frac{5}{3}$

28)  $(-1, 2), m = 2$

25)  $(2, -4), m = -1$

29)  $(3, 1), m = \frac{1}{2}$

26)  $(-1, 2), m = 2$

30)  $(-2, 5), m = -4$

**Answers*****Slope–intercept form and Point–slope form***

- |   |                                      |
|---|--------------------------------------|
| 1) $y = 14x + 7$                        | 7) $y = \frac{11}{8}x + 6$           |
| 2) $y = -2x - 14$                       | 8) $y = \frac{3}{2}x + 8$            |
| 3) $y = -\frac{11}{7}x + 8$             | 9) $y = -3x - 4$                     |
| 4) $y = -\frac{9}{5}x - 7$              | 10) $y = -2x + 5$                    |
| 5) $y = \frac{x}{3} - 2$                | 11) $y = -x - 2$                     |
| 6) $y = \frac{13}{11}x + \frac{12}{11}$ | 12) $y = -\frac{6}{5}x - 3$          |
| 13) $m = 2, (-3, 0)$                    | 22) $m = -4, (2, 7)$                 |
| 14) $m = \frac{2}{3}, (4, -2)$          | 23) $y - 2 = 7(x - 1)$               |
| 15) $m = -\frac{3}{2}, (0, -3)$         | 24) $y - 5 = \frac{5}{3}(x - 3) = 0$ |
| 16) $m = \frac{1}{2}, (3, 3)$           | 25) $y + 4 = -(x - 2)$               |
| 17) $m = \frac{13}{10}, (-1, -2)$       | 26) $y - 2 = 2(x + 1)$               |
| 18) $m = 3, (0, 5)$                     | 27) $y - 4 = 4(x + 1)$               |
| 19) $m = -2, (4, 3)$                    | 28) $y - 2 = 2(x + 1)$               |
| 20) $m = 0, (3, -3)$                    | 29) $y - 1 = \frac{1}{2}(x - 3)$     |
| 21) $m = 3, (-6, -2)$                   | 30) $y - 5 = -4(x + 2)$              |