

## Math Worksheets

### Writing Linear Equations

 Write the equation of the line through the given points.

- |                                  |                                   |
|----------------------------------|-----------------------------------|
| 1) Through: $(2, -5), (3, 9)$    | 9) Through: $(-6, 17), (4, -3)$   |
| 2) Through: $(-6, 3), (3, 12)$   | 10) Through: $(-8, 22), (5, -4)$  |
| 3) Through: $(10, 7), (5, 27)$   | 11) Through: $(9, 27), (3, -3)$   |
| 4) Through: $(15, 11), (3, -1)$  | 12) Through: $(11, 32), (9, 4)$   |
| 5) Through: $(24, 17), (12, -7)$ | 13) Through: $(-3, 13), (-4, 0)$  |
| 6) Through: $(8, 29), (4, -7)$   | 14) Through: $(-5, 5), (5, 15)$   |
| 7) Through: $(20, -16), (12, 0)$ | 15) Through: $(18, -32), (11, 3)$ |
| 8) Through: $(-3, 10), (2, -5)$  | 16) Through: $(-4, 25), (4, -15)$ |

 Find the answer for each problem.

- 17) What is the equation of a line with slope 6 and intercept 12? \_\_\_\_\_
- 18) What is the equation of a line with slope  $-11$  and intercept  $-4$ ? \_\_\_\_\_
- 19) What is the equation of a line with slope  $-3$  and passes through point  $(5, 2)$ ?  
\_\_\_\_\_
- 20) What is the equation of a line with slope  $-5$  and passes through point  $(-2, -1)$ ? \_\_\_\_\_
- 21) The slope of a line is  $-10$  and it passes through point  $(-3, 0)$ . What is the equation of the line? \_\_\_\_\_
- 22) The slope of a line is 8 and it passes through point  $(0, 7)$ . What is the equation of the line? \_\_\_\_\_

## Answers of Worksheets

### Writing Linear Equations

1)  $y = 14x - 33$

2)  $y = x + 9$

3)  $y = -4x + 47$

4)  $y = x - 4$

5)  $y = 2x - 31$

6)  $y = 9x - 43$

7)  $y = -2x + 24$

8)  $y = -3x + 1$

9)  $y = -2x + 5$

10)  $y = -2x + 6$

11)  $y = 5x - 18$

12)  $y = 14x - 122$

13)  $y = 13x + 52$

14)  $y = x + 10$

15)  $y = -5x + 58$

16)  $y = -5x + 5$

17)  $y = 6x + 12$

18)  $y = -11x - 4$

19)  $y = -3x + 17$

20)  $y = -5x - 11$

21)  $y = -10x - 30$

22)  $y = 8x + 7$