

Writing Linear Equations

 Write the equation of the line through the given points.

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| 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? _____