

Algebra I Homework #3

- 1) Simplify: $-(-1-2)^2 - 12 \div 4(-2-1) - [-48 \div (8(6))]^3 - 9^0$
- 2) Simplify: $\frac{-3^2 - (-1-1)^0 - 24 \div 6(-5+1)}{-3^4 \div 27(-2-1) - 1^9 - (-1-3)^2}$
- 3) Turn $2\frac{7}{8}$ % into a fraction.
- 4) What are the natural numbers less than or equal to 9?
- 5) Simplify: $\frac{72}{57}\left(\frac{7}{12} - \frac{1}{18}\right) - \frac{5}{8} + \frac{2^0}{9}$
- 6) Simplify: $\frac{-a - x^3}{-2d - c^2}$ if $a = -5$, $x = -2$, $d = -1$, and $c = -3$
- 7) Simplify: $4x^2 - 7 + 3x^3 + 5x - 3x^2 - 1$
- 8) Simplify: $-3a - 4(2a - 1) - 5^0 - (-1-1)^3 + 4a$
- 9) Simplify: $\frac{3d - x^0}{-c - a^3}$ if $a = -1$, $c = -4$, $d = -2$, and $x = -6$
- 10) Simplify: $-5(2x - 3) - 20 \div 5(-1 - 3) - 3x$
- 11) Simplify: $-3(2y - 7) - (-1-1)^4 - 2(2x^2y^3a)^0 + 5y$
- 12) Simplify: $\frac{-y^3 - 2a}{-c - x^2}$ if $y = -1$, $a = -4$, $c = -5$, and $x = -3$
- 13) Simplify: $-12 \div 6(-1-1) - (3x - 4) - 5x - 4^2$
- 14) Simplify: $-(2x^3 - 5x + 3 - x^2) - 3(-7 + 4x^2 - 6x) - 4$
- 15) Simplify: $\frac{-x - y^2}{-2d^3 - a^0}$ if $x = -4$, $y = -1$, $d = -3$, and $a = -7$
- 16) Simplify: $-3^0 - 2(3x - 5) - (-4 + 1)^2 - (4x - 3)$
- 17) Simplify: $-3(2x - 5) - (-4x - 3) - 2(x^2 - 5x - 1)$
- 18) Simplify: $\frac{-2k^0 + a^2}{-2x - y^3}$ if $k = -4$, $a = -3$, $x = -5$, and $y = -2$
- 19) Simplify: $-5 + 3x^3 - 2x + 4x^2 - 7 - 5x - 6x^3$
- 20) Simplify: $-(-2x + 1)^0 - 3(5x - 2) - 6 \div 3(-1 - 1) - 2^4$

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