Algebra I Homework #14

- 1) Find the equation of the line that goes through the points (-3,-7) and (-3,2)
- 2) Simplify: $\frac{96x^{-6}y^5a^{-2}}{108x^{-4}y^2a^{-3}}$
- 3) Simplify: $(4x^2 + 5x 3)(6x^2 x + 2)$
- 4) Simplify: $(13x-17)^2$
- 5) Find the slope of the line that goes through the points (-8,6) and (8,-6)
- 6) Write .00000475 in scientific notation.
- 7) Simplify: $\frac{24x^2ya^3 + 54x^3y^3a^2 81xy^2a}{72x^2y^3a^2}$
- 8) Simplify: $\frac{3x^2 10x + 8}{x 2}$
- 9) Write 5,874,000,000,000 in scientific notation.
- 10) Simplify: $\frac{36x^3y^2a^4 64xy^2a^3 108x^2y^3a^2}{48x^3y^2a^2}$
- 11) Simplify: $\frac{6x-7+5x^2}{x+3}$
- 12) Write 3.57×10^{-5} in decimal notation.
- 13) Simplify: $\frac{96x^4y^2a^2 27x^3y^2a^5 + 60x^2y^4a}{36x^3ya^4}$
- 14) Simplify: $\frac{-4x^2 5 + 3x^3}{x 1}$
- 15) Write 9.6×10^7 in decimal notation.
- 16) Simplify: $\frac{686xya^4 98x^4y^5a^2 + 84x^3ya^5}{147x^4y^2a^5}$
- 17) Simplify: $\frac{27 + 8x^3}{2x + 3}$
- 18) Write .000000005183 in scientific notation.
- 19) Simplify: $\frac{216x^6y^2a^4 x^4y^4a^3 162xya}{144x^5ya^3}$

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20) Simplify: $\frac{x^4 - 5x^2 + 3x - 4}{x - 4}$