

## Algebra I Homework #20 – Answer Key

- 1)  $x = \frac{3}{5}, \frac{2}{3}$
- 2)  $144x^9a^6\sqrt{6a}$
- 3)  $\frac{2(2x-1)}{x+3} \quad x \neq -3, -8, 3, \frac{4}{3}, \frac{1}{2}$
- 4)  $(8x-3)(2x+3y)$
- 5)  $18\sqrt{5} - 10\sqrt{6}$
- 6)  $\frac{15y^2 - 2xa^2}{72x^2y^3a^3} \quad x \neq 0, y \neq 0, a \neq 0$
- 7)  $\frac{7x-8}{x+58} \quad x \neq -4, 5, -58$
- 8) No Solutions  $x \neq 2, 3$
- 9)  $\frac{1}{(x+3)(x+2)} \quad x \neq 4, -2, -3$
- 10) 1  $x \neq 3, -3, -6$
- 11)  $x = \frac{3}{2} \quad x \neq \frac{9}{4}, \frac{2}{3}$
- 12)  $\frac{11x-29}{(3x-4)(3x-2)(2x+3)} \quad x \neq \frac{4}{3}, \frac{2}{3}, \frac{-3}{2}$
- 13)  $\frac{5x-7}{2(2x+3)} \quad x \neq \frac{-3}{2}, 2$
- 14)  $x = \frac{23}{7} \quad x \neq \frac{5}{3}, -4$
- 15)  $\frac{x+3}{x+5} \quad x \neq -5, 4$
- 19)  $\frac{x+3}{x-4} \quad x \neq 2, 4$
- 16)  $\frac{(5x+48)(x+4)}{(4x+37)(x-4)} \quad x \neq -4, 3, 4, \frac{-37}{4}$
- 20)  $\frac{2x+1}{x-1} \quad x \neq 1, 3$
- 17)  $x = \frac{-59}{22} \quad x \neq \frac{-7}{5}, \frac{1}{6}$
- 18) No Solutions  $a \neq -4$

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