

## Algebra II Homework #3 – Answer Key

- 1) -16
- 2) Natural, whole, integer, rational, real, complex
- 3)  $\frac{-13}{21}$
- 4)  $\frac{65}{24}$
- 5)  $\frac{-269}{72}$
- 6) All real numbers
- 7) No solutions
- 8)  $x = \frac{123}{86}$
- 9)  $x = \frac{-52}{11}$
- 10)  $x = -257$
- 11)  $a = \frac{63ck - 16k}{60y}$  or  $a = \frac{-63ck + 16k}{-60y}$
- 12)  $x = \frac{42ay + 9my}{20ca}$
- 13) 20 pennies, 40 nickels, 15 quarters
- 14) 120 gallons
- 15) 159 senior tickets, 477 adult tickets, 3 children tickets
- 16) 20 gallons
- 17)  $\frac{-55}{34}$
- 18) 40, 42, 44
- 19)  $\frac{49}{19}$
- 20) 4 and 21

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