

Name _____
Alg1

July 15, 2019
Summer School Absent Assignment

Part I:

1) Evaluate: $108 \div (61 - 7^2) - 48 \div (-\frac{3}{4}) =$

2) $x = -4$ and $y = 7$
 $yx^3 - xy^2 + 11xy$

3) $x = -3$
 $12x^2 - 2x^3 \div (2x + 12) + 6x$

4) Is $(-3, 7)$ a solution for both of the following equations?

$$9x - 5y = 62$$
$$y - 3 = 4(x + 4)$$

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6) Is (7, -2) a solution for both of the following equations?

$$y + 10 = \frac{1}{2}(x + 9)$$

$$4x - 3y = 34$$

7) Is $(\frac{1}{2}, -8)$ a solution for both of the following equations?

$$12x - 5y = 46$$

$$y - 2 = 10(x + \frac{1}{2})$$

8) Evaluate each problem in $\sqrt{b^2 - 4ac}$ (If not a perfect square, simplify the radical)

a) when $a = 3$, $b = -4$, and $c = -7$

b) when $a = -6$, $b = -17$, and $c = -7$

c) when $a = 7$, $b = 6$, and $c = 2$

d) when $a = 2$, $b = -8$, and $c = -4$

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Part I: Answer Key:

- 1) 73 2) -560 3) 99 4) 0
5) No, it doesn't work in the 1st equation 6) Yes
7) No, it is not a solution for the 2nd equation. 8) a) 10 b) 11 c) $2\sqrt{23}$ d) $4\sqrt{6}$

Part II:

Simplify Each Radical

1) $\sqrt{432}$ 2) $\sqrt{150}$ 3) $\sqrt{512}$

4) $\sqrt{605}$

5) $\sqrt{320}$

6) $\sqrt{343}$

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7) $\sqrt{576}$

8) $\sqrt{375}$

9) $\sqrt{704}$

10) $\sqrt{507}$

11) $\sqrt{289}$

12) $\sqrt{252}$

Part II Answer Key:

1) $12\sqrt{3}$

2) $5\sqrt{6}$

3) $16\sqrt{2}$

4) $11\sqrt{5}$

5) $8\sqrt{5}$

6) $7\sqrt{7}$

1) 24

8) $5\sqrt{15}$

9) $8\sqrt{11}$

10) $13\sqrt{3}$

11) 17

12) $6\sqrt{7}$

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Part III: Simplify and Combine Like Terms

YOU MUST SHOW ALL WORK!

1) $(22x - 13) + (9 - 19x)$

2) $(16x + 7) - (13x - 11)$

3) $8(5x - 7) + 9(7x + 12)$

4) $12(5x + 6) - 4(15x + 18)$

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5) $8(6x^2 - 9x - 3) - 6(-8x^2 - 12x + 7)$

6) $3(11x^2 - 9x + 6x) + 9(-4x^2 - 3x - 2)$

7) $(14x - 11) + (6x + 9)$

8) $(8x^2 - 5x + 7) - (9x^2 - 7x + 10)$

9) $7(4x - 5) + 2(14x + 15)$

10) $9(7x - 6) - 6(10x + 11)$

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11) $5(6x^2 - 2x + 12) - 10(3x^2 - x + 6)$ 12) $11(-5x^2 + 3x - 6) + 8(7x^2 - 4x + 8)$

Part III: Review Answer Key:

- 1) $3x - 4$ 2) $3x + 18$ 3) $103x + 52$ 4) 0 5) $96x^2 - 66$ 6) $-3x^2 - 36x - 18$
7) $20x - 2$ 8) $-x^2 + 2x - 3$ 9) $56x - 5$ 10) $3x - 120$ 11) 0 12) $x^2 + x - 2$