Alg2a Q2 Test 2 Review Due: Thursday, January 10

Solving Quadratics Test: Friday, January 11

Solve by Factoring:

1)
$$x^2 = 22x - 96$$

2)
$$5x^2 - 3x - 15 = 6x^2 + 10x + 15$$

3)
$$8x^2 - 6x + 72 = 9x^2 - 6x - 72$$

4)
$$5x = x^2 - 84$$

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 $5) 6x^2 = 30x + 396$

$$6) x^3 + 39x = 16x^2$$

7)
$$20x^2 - 45 = 0$$

8)
$$3x^2 = -3x + 216$$

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9)
$$5x^3 - 210x = 5x^2$$

$$10) \ 5x^2 + 35x = 40$$

11)
$$21x^2 + 3x - 10 = 5x^2 + 3x - 9$$

12)
$$x^2 = -22x - 72$$

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13) $11x^2 - 4x - 15 = 7x^2 - 4x - 14$

14) $4x^2 - 17x + 3 = 6x^2 - 9x + 3$

15) $8x^2 + 2x - 11 = 5x^2 + 11x - 11$

16) $3x^2 - 6x + 8 = 12x^2 + 21x + 8$

Answer Key:

1)
$$x = \{6,16\}$$

2)
$$x = \{-10, -3\}$$

3)
$$x = \{-12, 12\}$$

4)
$$x = \{-7,12\}$$

$$5) x = \{-6,11\}$$

6)
$$x = \{0,3,13\}$$

7)
$$x = \{-\frac{3}{2}, \frac{3}{2}\}$$

8)
$$x = \{-9,8\}$$

9)
$$x = \{-6,0,7\}$$

9)
$$x = \{-6,0,7\}$$
 10) $x = \{-8,1\}$

11)
$$x = \{-\frac{1}{4}, \frac{1}{4}\}$$
 12) $x = \{-18, -4\}$

12)
$$x = \{-18, -4\}$$

13)
$$x = \{-\frac{1}{2}, \frac{1}{2}\}$$
 14) $x = \{-4, 0\}$

$$(14) x = \{-4, 0\}$$

15)
$$x = \{0,3\}$$

16)
$$x = \{-3,0\}$$

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Solve Using The Quadratic Formula:

1)
$$3x^2 - 10x - 1 = 0$$

$$2) 9x^2 = 5x + 4$$

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3) $5x^2 = 17x - 6$

4)
$$12x^2 + 22x = -4$$

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5) $4x^2 - 7 = -16x$

6)
$$8x^2 = -1 - 12x$$

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7)
$$x^2 - 10x - 25 = 0$$

8)
$$7x^2 = 13x - 16$$

Answer Key:

1)
$$x = \frac{5}{3} \pm \frac{2\sqrt{7}}{3}$$

2)
$$x = \{-\frac{4}{9}, 1\}$$

3)
$$x = \{\frac{2}{5}, 3\}$$

1)
$$x = \frac{5}{3} \pm \frac{2\sqrt{7}}{3}$$
 2) $x = \{-\frac{4}{9}, 1\}$ 3) $x = \{\frac{2}{5}, 3\}$ 4) $x = \frac{-11}{12} \pm \frac{\sqrt{73}}{12}$

5)
$$x = -2 \pm \frac{\sqrt{23}}{4}$$

6)
$$x = \frac{-3}{4} \pm \frac{\sqrt{3}}{4}$$

7)
$$x = 5 \pm 5\sqrt{5}$$

5)
$$x = -2 \pm \frac{\sqrt{23}}{4}$$
 6) $x = \frac{-3}{4} \pm \frac{\sqrt{7}}{4}$ 7) $x = 5 \pm 5\sqrt{5}$ 8) x No Real Solution $(\sqrt{-279})$

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Solve Using Completing the Square:

1)
$$x^2 + 6x - 39 = 0$$

2)
$$x^2 - 20x + 16 = 0$$

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3)
$$x^2 - 24x - 31 = 0$$

4)
$$x^2 + 8x - 176 = 0$$

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5) $x^2 - 18x + 1 = 0$

6)
$$x^2 + 16x - 8 = 0$$

Answer Key:

1)
$$x = -3 \pm 4\sqrt{3}$$

2)
$$x = 10 \pm 2\sqrt{21}$$

4)
$$x = -4 \pm 8\sqrt{3}$$
 5) $x = 9 \pm 4\sqrt{5}$

5)
$$y = 9 + 4\sqrt{5}$$

3)
$$x = 12 \pm 5\sqrt{7}$$

6) $x = -8 \pm 6\sqrt{2}$