Name _____ **February Break Assignment**
Alg1 **Review Assignment**

Part I:

1) $\frac{5}{8}x + 11 = 91$

2) $45 - \frac{3}{4}x = 132$

3) $\frac{2}{3}x - 120 = 62$

4) $54 - \frac{3}{8}x = 72$

5) $7(4x + 3) - 8(4x - 2) = 97$

6) $6(5x - 1) = 4(10x + 6)$

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7) $9(6x + 3) + 8(2x - 11) = -47$

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

9) $10(8x + 6) = 8(4x + 9)$

10) $5(11x – 5) – 7(9x - 2) = 21$

Answer Key:

1) x = 128 *2) x = -116* *3) x= 273* *4) x = -48* *5) x = -15*

6) x = -3 *7)* $x = \frac{1}{5}$ *8) x = -9* *9) x = ¼* *10) x = -4*

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Part II:

1) Solve (use solve by factoring):

$x^2 - 84 = 17x$

2) Solve: (use quad formula or completing the square)

$x^2 - 26x - 11 = 0$

3) Solve algebraically and check: (3 columns: 1st Variable, 2nd Variable, and Check)

$x = 9 - 2y$
$5x + 11y = 43$

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4) Solve algebraically and check: (3 columns: 1st Variable, 2nd Variable, and Check)
$7x - 4y = -85$
$3x + 10y = 28$

5) Factor:

a) $x^2 + x - 110$ b) $36x^2 - 49$ c) $x^2 - 16x + 64$ d) $6x^2 - 6x - 180$

e) $6x^2 + 13x - 8$ f) $121x^2 - 1$ g) $12x^2 + 19x + 7$ h) $6x^2 - 486$

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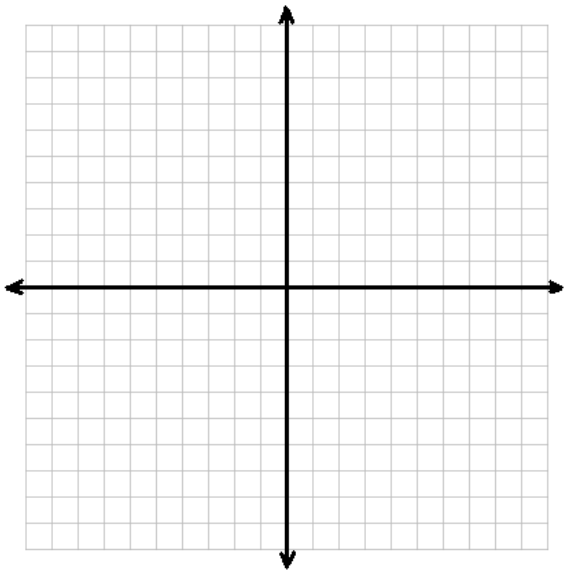
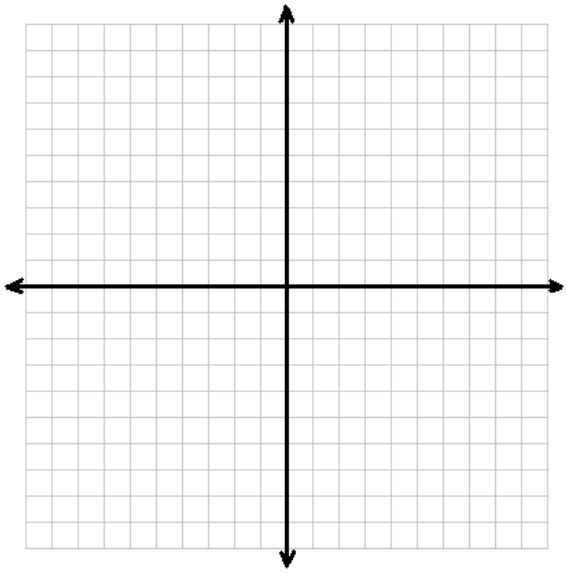
Solve the system of equations graphically and check:

6) $6x - 9y = 45$
$4x + 8y = 16$



Solve the system of equations graphically and check:

4) $y - 3 = -\frac{3}{4}(x + 4)$
$x = 8$



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Answer Key:

1) x = {-4,17} ***2) 13 ± 6√5*** ***3) (13,-2)*** ***4) (-9,5.5)***

5) a) (x+11)(x-10) ***b) (6x-7)(6x+7)*** ***c) (x-8)(x-8)*** ***d) 6(x+5)(x-6)***
e) (3x+8)(2x-1) ***f) (11x+1)(11x-1)*** ***g) (x+1)(12x+7)*** ***h) 6(x+9)(x-9)***

6) (6,-1) ***7) (8,-6)***

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