

Name _____

Alg1 Q3 Test 2 Review

Test: Friday, 2/28

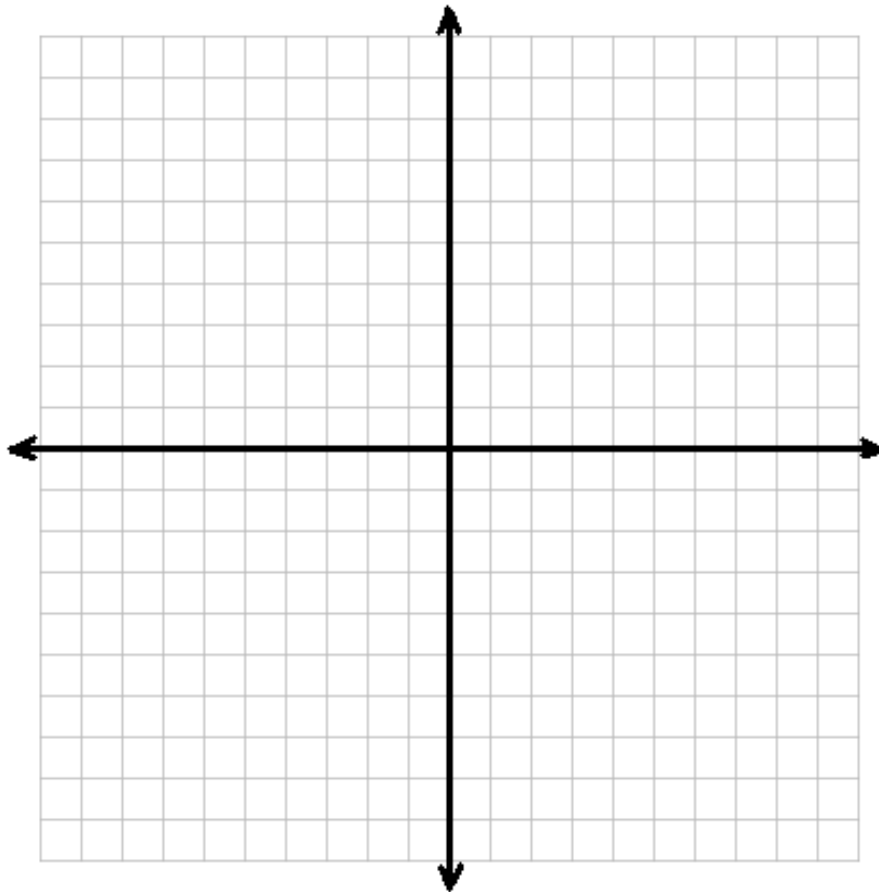
February 14, 2020

Due: Thursday, 2/27

Part I: Solve each system GRAPHICALLY and check!

1) $y - 10 = -4(x + 4)$

$18x - 27y = -216$



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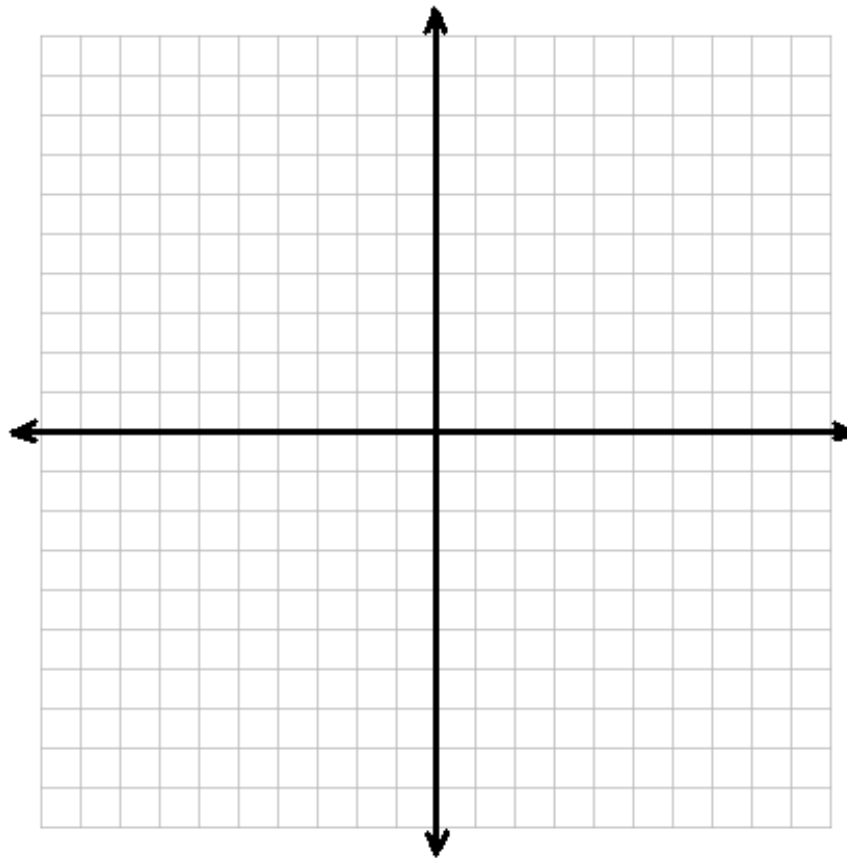
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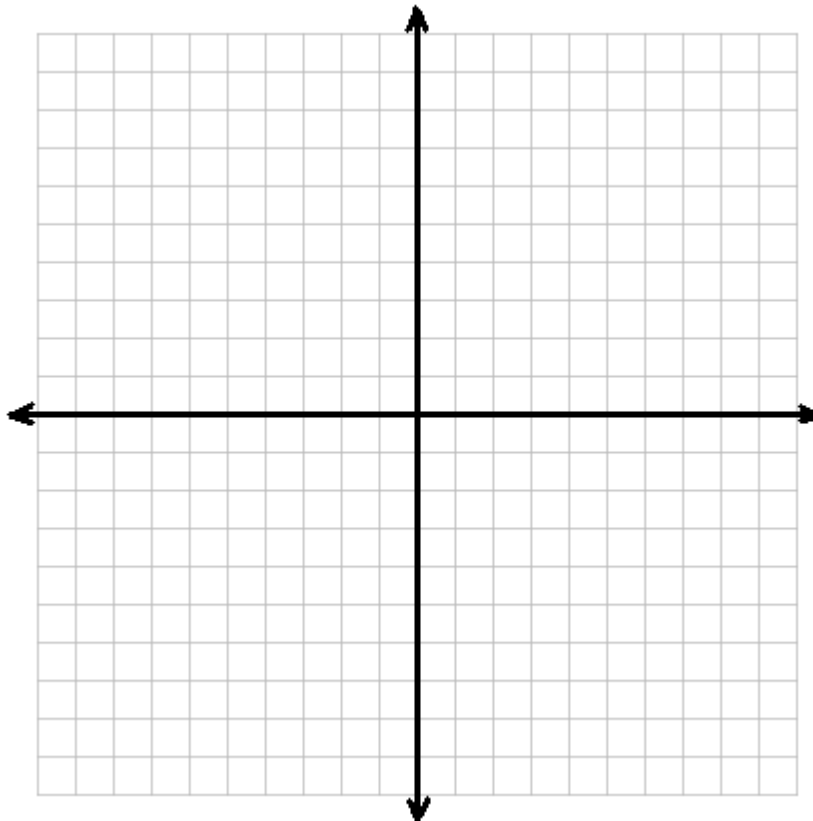
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$$2) y - 2 = -\frac{3}{4}(x - 4)$$

$$28x - 14y = 84$$



3) $x = -5$
 $8x + 20y = 40$

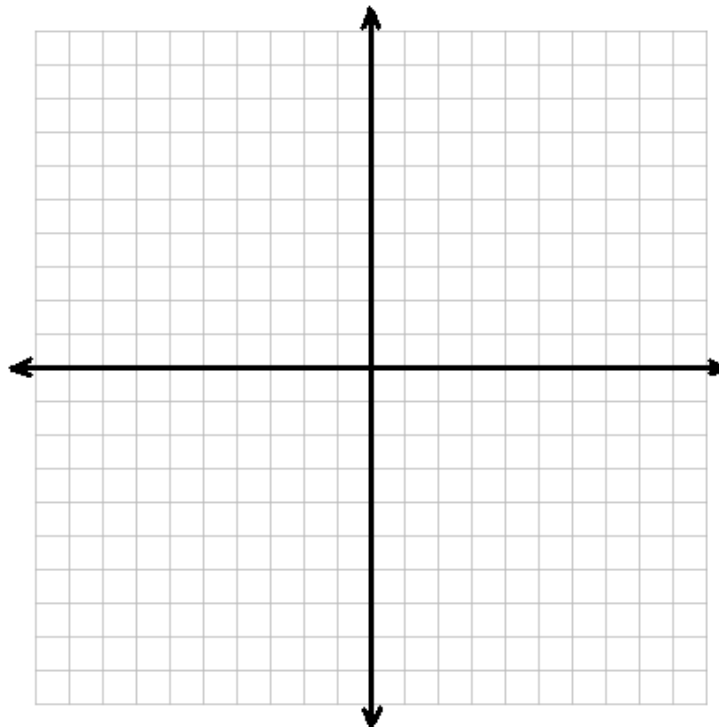


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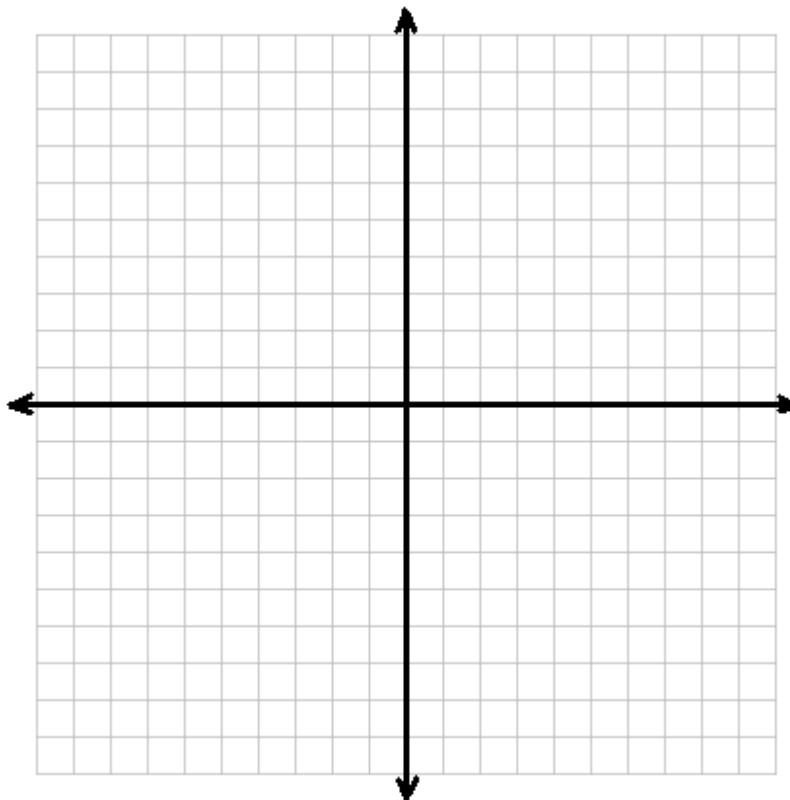
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4) $27x + 9y = 27$
 $y + 7 = -2(x - 6)$



5) $y = 6$
 $y + 9 = (3/2)(x + 6)$



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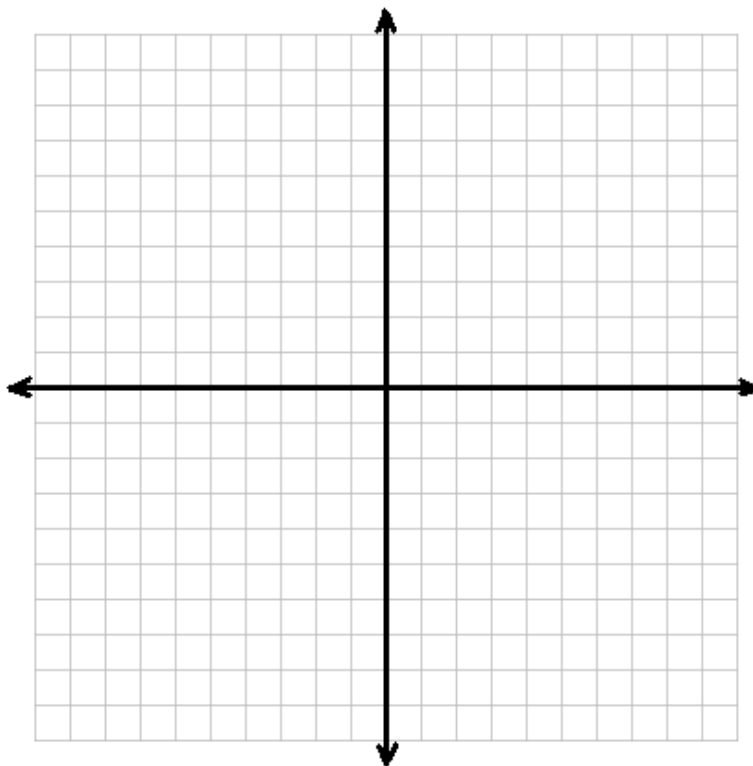
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6) $11x + 11y = 44$

$12x - 36y = 144$



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Part II: Systems by Substitution (linear/linear)

1) $y = 3x - 8$
 $6x - 5y = -5$

2) $x = 2y + 11$
 $5x + 8y = 127$

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$$\begin{aligned} 3) \quad &4x + y = 14 \\ &12x - 7y = -118 \end{aligned}$$

$$\begin{aligned} 4) \quad &x - 9y = -14 \\ &7x + 6y = -144 \end{aligned}$$

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Section III: Systems by Elimination

1) $8x - 3y = -123$
 $11x - 4y = -171$

2) $6x - 5y = -42$
 $-9x + 8y = 67$

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$$3) \begin{aligned} 5x - 9y &= 98 \\ 4x &= 7y + 76 \end{aligned}$$

$$4) \begin{aligned} 4x + 10y &= -40 \\ 5y &= 6x + 68 \end{aligned}$$

5) $7x + 11y = -154$
 $11x - 7y = 98$

Answer Key:

Part I:

- 1) (-3,6)
- 2) (4,2)
- 3) (-5,4)
- 4) (-2,9)
- 5) (4,6)
- 6) (6,-2)

Part II:

- 1) (5,7) 2) (19,4) 3) $(-\frac{1}{2}, 16)$ 4) $(-20, -\frac{2}{3})$

Part III:

- 1) (-21, -15) 2) $(-\frac{1}{3}, 8)$ 3) (-2,-12) 4) $(-11, \frac{2}{5})$ 5) (0, -14)

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