

Name: _____

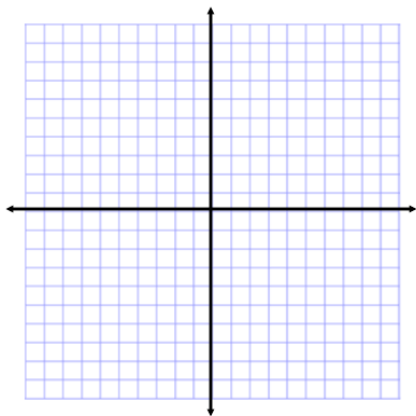
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System of Equations Take Home Assignment: Make sure to check all work

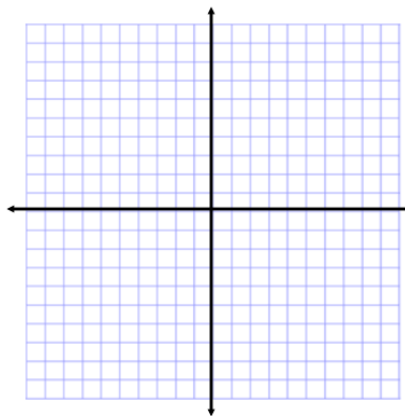
A: Solve the systems graphically: [3 pts each]

1) $2x + y = 4$
 $y = \frac{2}{3}x - 4$



Solution: _____

2) $y - x = -4$
 $y = -2x + 2$



Solution: _____

B. Solve the system by elimination: [4 pts each]

3) $5x + 3y = 9$
 $2x - 4y = 40$

Solution: _____

4) $2x - 3y = -8$
 $11x + 5y = -1$

Solution: _____

C) Solve by substitution: [3 pts each]

<p>5) $y = x + 4$ $3x + y = 16$</p> <p>Solution: _____</p>	<p>6) $y = 3x + 2$ $4x + 5y = 48$</p> <p>Solution: _____</p>
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<p>7) Check if (3, 3) is a solution of the system $3x + 2y = 2$ $5x - 2y = 9$</p> <p>[2 pts]</p>	<p>8) If two lines are parallel, how many solutions do they have?</p> <p>[1 pt]</p>
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Bonus: Give an equation in standard form for a line which is perpendicular to $-2x + 3y = 7$ and has a y intercept of -3 .