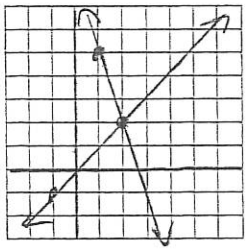
NAME Key DATE _____ SCORE _____

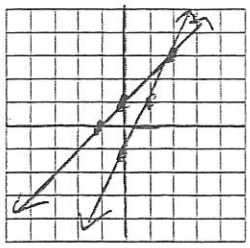
The Graphing Method; The Substitution Method

Solve each system by the graphing method.

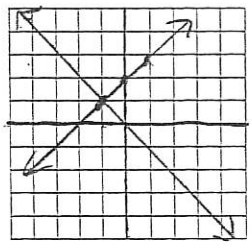
1. $y = x$
   $y = 8 - 3x$
   (2, 2)



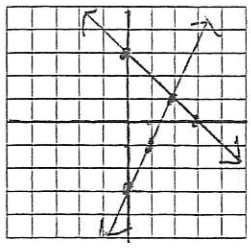
2. $y = x + 1$
   $y = 2x - 1$
   (2, 3)



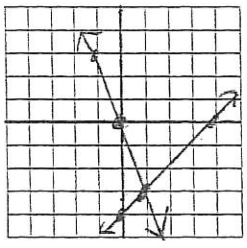
3. $y = -x$
   $y = x + 2$
   (-1, 1)



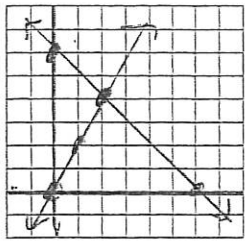
4. $x + y = 3$
   $y = 2x - 3$
   (2, 1)



5. $x - y = 4$
   $3x + y = 0$
   (1, -3)



6. $y = 2x$
   $x + y = 6$
   (2, 4)



Solve each system by the substitution method. ALL work on separate paper!

7. $y = 2$
   $x + 3y = -1$ (-7, 2)

8. $x + y = 8$
   $x - y = 4$ (6, 2)

9. $y = 2x$
   $x + y = 12$ (4, 8)

10. $x + y = 5$
    $3x - 2y = 10$ (4, 1)

11. $x = 2y + 3$
    $2x - 3y = 4$ (-1, -2)

12. $m - 3n = 1$
    $4m + 6n = 10$ (2, 1/3)

13. $\frac{a}{4} - b = -1$
    $a + b = 11$ (8, 3)

14. $6a - b = -5$
    $4a - 3b = -8$ $(-\frac{1}{2}, 2)$

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Multiplication with the ~~Addition or Subtraction~~ Elimination Method

ALL WORK SHOULD BE ON SEPARATE PAPER!

Solve by the ~~addition or subtraction~~ elimination method.

6. $x + y = 8$
   $x - y = 2$ (5, 3)

7. $2m + n = 1$
   $m - n = 8$ (3, -5)

8. $x - y = 8$
   $2x + y = 4$ (4, -4)

9. $2k - 5p = -5$
   $6k - 5p = -17$ (-3, -1/5)

10. $3x - y = -5$
    $2x + 2y = -6$ (-2, 1)

11. $4x + y = -1$
    $4x + 3y = -8$ $\left(\frac{5}{8}, -\frac{7}{2}\right)$

Solve by using multiplication with the ~~addition or subtraction~~ elimination method.

1. $3x + 2y = 2$
   $x - 4y = 3$ $\left(1, -\frac{1}{2}\right)$

2. $2x - 3y = -3$
   $x + y = 6$ (3, 3)

3. $x + 3y = 8$
   $2x + y = 6$ (2, 2)

4. $3x + 7y = -2$
   $2x - 5y = -11$ (-3, 1)

5. $x - 2y = 10$
   $4x + 5y = 14$ (6, -2)

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

7. $7x + 3y = 1$
   $2x - 5y = 12$ (1, -2)

8. $3x + 4y = -5$
   $5x + 6y = -7$ (1, -2

9. $\frac{a}{3} + \frac{b}{4} = 1$
   $\frac{a}{6} + b = -3$ (6, -4)

10. $\frac{x}{4} + y = -4$
    $x + \frac{y}{3} = 6$ (8, -6)