

NAME _____

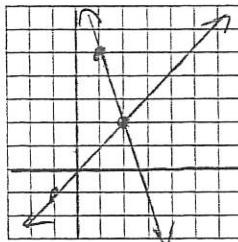
Key

DATE _____ SCORE _____

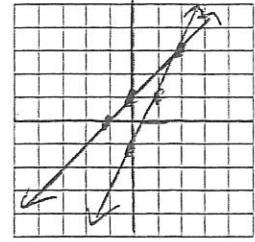
The Graphing Method; The Substitution Method

Solve each system by the graphing method.

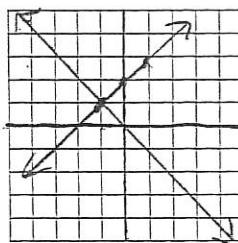
1. $y = x$
 $y = 8 - 3x$
 $(2, 2)$



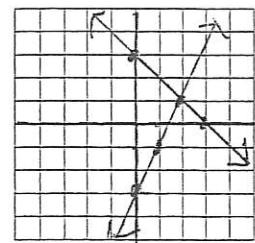
2. $y = x + 1$
 $y = 2x - 1$
 $(2, 3)$



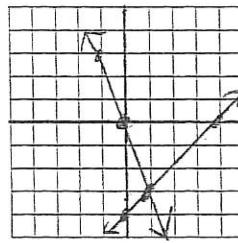
3. $y = -x$
 $y = x + 2$
 $(-1, 1)$



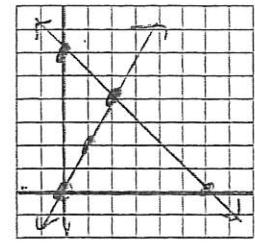
4. $x + y = 3$
 $y = 2x - 3$
 $(2, 1)$



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. $m - 3n = 1$
 $4m + 6n = 10$
 $(2, \frac{1}{3})$

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

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

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

**ALL WORK SHOULD BE ON
SEPARATE PAPER!**

Elimination

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

6.
$$\begin{array}{r} x + y = 8 \\ x - y = 2 \end{array} \underline{\quad (5, 3) \quad}$$

7.
$$\begin{array}{r} 2m + n = 1 \\ m - n = 8 \end{array} \underline{\quad (3, -5) \quad}$$

8.
$$\begin{array}{r} x - y = 8 \\ 2x + y = 4 \end{array} \underline{\quad (4, -4) \quad}$$

9.
$$\begin{array}{r} 2k - 5p = -5 \\ 6k - 5p = -17 \end{array} \underline{\quad (-3, -\frac{1}{5}) \quad}$$

10.
$$\begin{array}{r} 3x - y = -5 \\ 2x + 2y = -6 \end{array} \underline{\quad (-2, 1) \quad}$$

11.
$$\begin{array}{r} 4x + y = -1 \\ 4x + 3y = -8 \end{array} \underline{\quad (\frac{5}{8}, -\frac{7}{2}) \quad}$$

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

1.
$$\begin{array}{r} 3x + 2y = 2 \\ x - 4y = 3 \end{array} \underline{\quad (1, -\frac{1}{2}) \quad}$$

2.
$$\begin{array}{r} 2x - 3y = -3 \\ x + y = 6 \end{array} \underline{\quad (3, 3) \quad}$$

3.
$$\begin{array}{r} x + 3y = 8 \\ 2x + y = 6 \end{array} \underline{\quad (2, 2) \quad}$$

4.
$$\begin{array}{r} 3x + 7y = -2 \\ 2x - 5y = -11 \end{array} \underline{\quad (-3, 1) \quad}$$

5.
$$\begin{array}{r} x - 2y = 10 \\ 4x + 5y = 14 \end{array} \underline{\quad (6, -2) \quad}$$

6.
$$\begin{array}{r} 9x + 7y = 4 \\ 2x - y = 6 \end{array} \underline{\quad (2, 2) \quad}$$

7.
$$\begin{array}{r} 7x + 3y = 1 \\ 2x - 5y = 12 \end{array} \underline{\quad (1, -2) \quad}$$

8.
$$\begin{array}{r} 3x + 4y = -5 \\ 5x + 6y = -7 \end{array} \underline{\quad (1, -2) \quad}$$

9.
$$\begin{array}{r} \frac{a}{3} + \frac{b}{4} = 1 \\ \frac{a}{6} + b = -3 \end{array} \underline{\quad (6, -4) \quad}$$

10.
$$\begin{array}{r} \frac{x}{4} + y = -4 \\ x + \frac{y}{3} = 6 \end{array} \underline{\quad (8, -6) \quad}$$