Algebra 1 - Mr. Allen-Black & Mrs. Gulamali Name _____

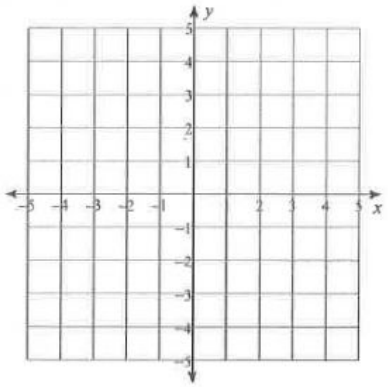


# Systems of Equations - Mixed Review

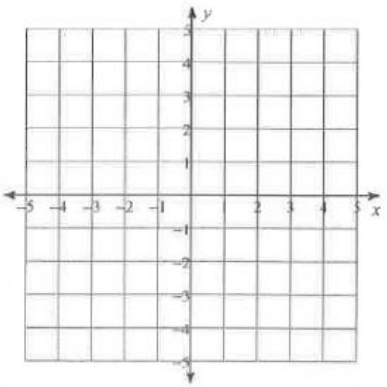
Date _____ Period ____

**Solve each system by graphing.**

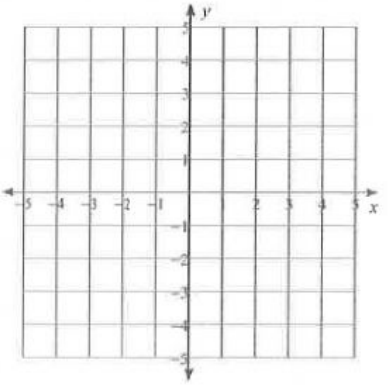
1) $y = 5x - 2$
$y = -x + 4$



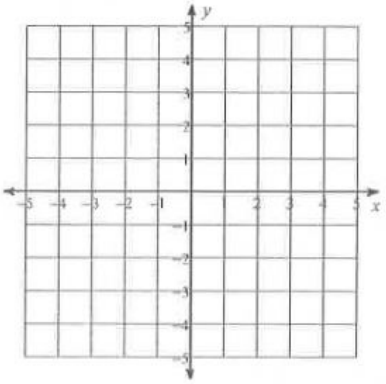
2) $y = x - 3$
$y = 8x + 4$



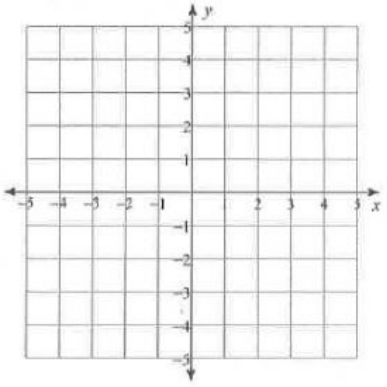
3) $y = -\frac{1}{4}x - 3$
$x = 4$



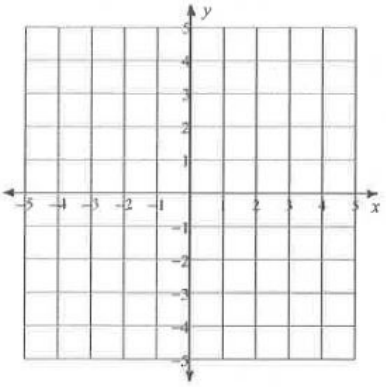
4) $x + 3y = 9$
$x + 3y = -6$



5) $3x + 4y = 16$
$x - y = 3$



6) $x + 2y = 8$
$5x - 2y = 4$



**Solve each system by substitution. *Show your work on a separate sheet.**

7) $y = 7x + 15$
$y = -2x + 6$

8) $y = 4x + 7$
$y = -4x - 1$

9) $-2x + 4y = -10$
$y = -6x - 9$

10) $4x - y = -5$
$y = 4x + 5$

11) $x - 4y = -16$
$3x + 8y = -8$

12) $-2x + 4y = -10$
$-2x + y = 2$

**Solve each system by elimination. *Show your work on a separate sheet.**

13) $9x + 9y = 11$
$-9x - 9y = -9$

14) $-9x - 9y = 0$
$6x + 9y = -6$

15) $-3x + y = 0$
$-8x + y = 10$

16) $4x + 2y = -22$
$4x + 10y = -30$

17) $-4x - 10y = -30$
$x + y = 6$

18) $2x + 2y = -6$
$-6x + 3y = 9$

19) $2x - 3y = 12$
$-3x + 4y = -16$

20) $4x + 5y = -1$
$7x + 4y = -16$