

Name: \_\_\_\_\_ Period: \_\_\_\_\_

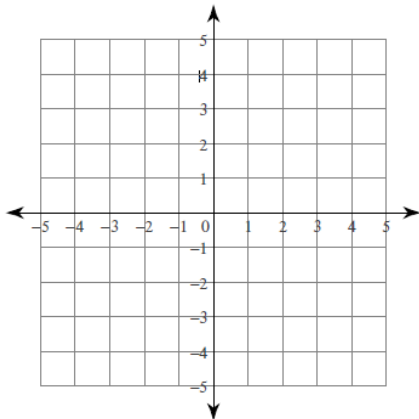
Score: \_\_\_\_\_ / \_\_\_\_\_  
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## HW 8-6: All Three Methods

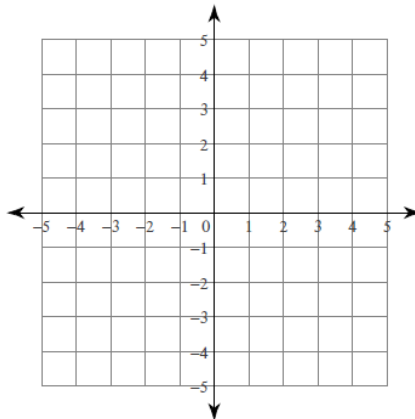
### Solve Systems of Equations by Graphing, Substitution and Elimination.

Solve each system of equations by graphing.

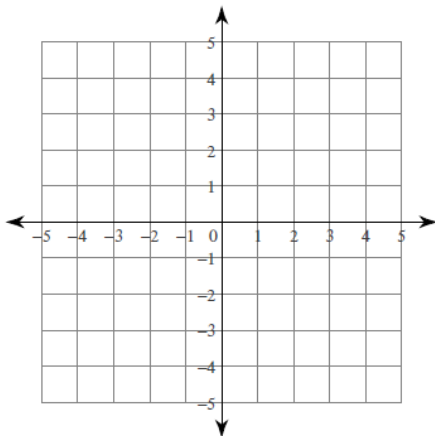
1)  $y = -3x + 4$   
 $y = 3x - 2$



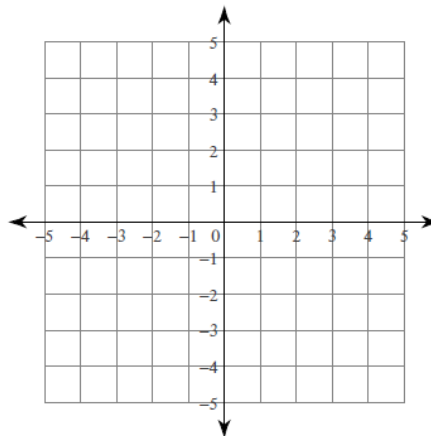
2)  $y = x + 2$   
 $x = -3$



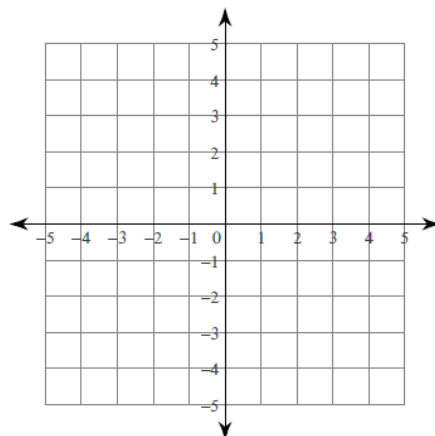
3)  $x - y = 3$   
 $7x - y = -3$



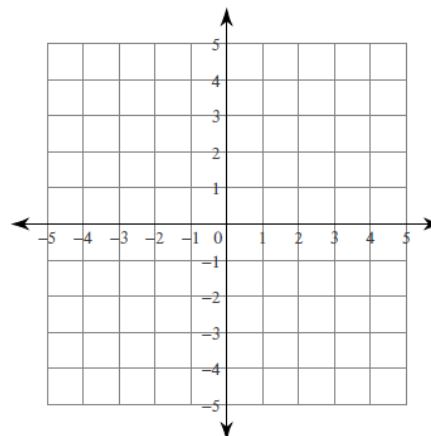
4)  $4x + y = 2$   
 $x - y = 3$



5)  $8x + y = -4$   
 $0 = -4 - y - 8x$



6)  $2y + x + 4 = 0$   
 $-x = -8 - 2y$



**Solve each system of equations by substitution.**

7)  $-3x - 3y = 3$   
 $y = -5x - 17$

8)  $y = 4x - 9$   
 $y = x - 3$

9)  $4x + 2y = 10$   
 $x = y + 13$

**Solve each system of equations by elimination.**

10)  $-x - y = 8$   
 $x - 3y = 8$

11)  $-2x - 2y = 6$   
 $10x + 10y = -30$

12)  $4x + 5y = -9$   
 $8x - y = -7$

**Choose the best method then solve each system.**

13)  $-3y = -5x + 2$   
 $33y = -18x + 51$

14)  $x = -7y$   
 $2x - 8y = 22$

15)  $-2x + 3y = 15$   
 $-6x + 6y = 18$

16)  $y = -3.5x - 3$   
 $-14x - 4y = -2$

17)  $x = -y - 3$   
 $5x - 5y = -15$

18)  $2x + 18y = 22$   
 $-x - 9y = -11$

19)  $-17 - 5y - 11x = 0$   
 $-15 = 9x + 4y$

20)  $y = -5$   
 $5x + 4y = -20$

21)  $2y = 8 + 3x$   
 $-8y = -12 - 6x$

22)  $6x + 8y = -22$   
 $y = -5$

23)  $7 + 2y = x$   
 $-2x - 6y = -14$

24)  $36 + 7x - 8y = 0$   
 $-10y = -12 - 6x$