

## "Getting Ready for Algebra"

Name \_\_\_\_\_

## POI--Using 2 Equations

Date \_\_\_\_\_ HW # \_\_\_\_\_

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**Rewrite each equation for the same variable. Then set them equal to each other to solve.**

1)  $6x + 2y = 0$   
 $y = 7x$

2)  $y = -4x$   
 $-6x + 2y = 14$

3)  $y = 2x$   
 $3x - 3y = 18$

4)  $7x + 5y = 23$   
 $y = -6x$

5)  $8x - 8y = 0$   
 $y = -2x$

6)  $-4x + 2y = 24$   
 $y = 8x$

7)  $y = 7x$   
 $6x - y = -7$

8)  $y = 7x$   
 $2x + 2y = 16$

9)  $y = 3x$   
 $8x - 3y = 0$

10)  $7x - 5y = 0$   
 $y = 3x$

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**Rewrite each equation for the same variable. Then set them equal to each other to solve.**

1)  $5x - y = -12$   
 $y = 7x$

2)  $-8x - y = -12$   
 $y = -6x$

3)  $y = 3x$   
 $8x - 3y = 5$

4)  $-2x + 4y = 22$   
 $y = 6x$

5)  $-7x + 5y = 0$   
 $y = -3x$

6)  $y = 4x$   
 $2x - y = 6$

7)  $-7x - y = 3$   
 $y = -4x$

8)  $-8x - 2y = 8$   
 $y = -8x$

9)  $y = x$   
 $-7x + 3y = -16$

10)  $-5x + 8y = 0$   
 $y = 4x$

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**Rewrite each equation for the same variable. Then set them equal to each other to solve.**

1)  $5x + 3y = -1$   
 $y = -2x$

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

3)  $y = 3x$   
 $4x - 5y = 11$

4)  $-7x - 5y = 12$   
 $y = -2x$

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

6)  $y = -6x$   
 $-5x - 2y = 0$

7)  $-4x + 6y = 14$   
 $y = 3x$

8)  $y = -6x$   
 $-3x - y = -24$

9)  $3x - 3y = 0$   
 $y = -6x$

10)  $8x + 3y = 20$   
 $y = 4x$

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**Rewrite each equation for the same variable. Then set them equal to each other to solve.**

1)  $y = 2x$   
 $3x - y = 6$

2)  $-7x - 8y = -15$   
 $y = x$

3)  $y = 4x$   
 $6x - 2y = -12$

4)  $y = 6x$   
 $8x - y = -4$

5)  $-6x - y = 5$   
 $y = -7x$

6)  $-4x - y = 4$   
 $y = -6x$

7)  $y = -4x$   
 $8x - y = -24$

8)  $-7x - 5y = 16$   
 $y = -3x$

9)  $-3x - 2y = 5$   
 $y = -2x$

10)  $7x - 2y = -2$   
 $y = 3x$