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### 5.2 Solving Systems of Equations by Substitution

Directions: Use substitution to solve each system of equations. Write your answer as an ordered pair. SHOW ALL YOUR WORK!!!

## Example 1 Step One

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


Step Three


Solve the eaugtion with the substituted value...

$$
4(2 y-3)-3 y=8
$$

## Step Four

Take your answer and plug it any equation to find the last variable

Use $x-2 y=-3$ or $4 x-3 y=8$ or $x=2 y-3$


1. $y=7 x-10$
2. $x=-8$
$y=-3$
$2 x+y=-12$
3. $y=6 x$
$y-7=5 x$
4. $y+9=9 x$
$y=9$
5. $x=-4$
$y=-x-8$
6. $y=8 x-9$
$y=7$
7. $x-6 y=-14$
8. $y=2 x-15$
$y=5 x$
9. $y=-8 x$
$2 x+4 y=0$
10. $-4 x+y=6$
$-5 x-y=21$
11. $-7 x-2 y=-13$
$x-2 y=11$
12. $-3 x+3 y=4$
$-x+y=3$
13. $x=2 y$
$3 x+3 y=18$
14. $6 x+6 y=-6$
$5 x+y=-13$
15. $3 x-4 y=2$
$3 x+3 y=-3$
