Name Key

Solving Systems of Linear Equations by Multiplication with Addition Method

1. solve the following

$6x + 5y = 6$
$6x - 3y = 6$

2. $\left.\begin{array}{l} 6x + 5y = 6 \\ (-1)(6x - 3y = 6) \end{array}\right\}$ Multiplication to create additive inverse

3. $\left.\begin{array}{r} 6x + 5y = 6 \\ -6x + 3y = -6 \end{array}\right\}$ Addition method

$8y = 0$
$y = 0$

4. $\left.\begin{array}{l} 6x + 5y = 6 \\ 6x + 5(0) = 6 \end{array}\right\}$ Substitute

$6x = 6$
$x = 1$

Solve the following.

1. $3x + 6y = 6$, $2x + y = 1$ (0,1)
2. $3x - 4y = 0$, $x - y = 1$ (4,3)
3. $4x - 4y = 12$, $3x + 2y = 4$ (2,-1)
4. $2x - 3y = 14$, $x + 3y = 7$ (7,0)
5. $3x + 5y = 16$, $2x - y = 2$ (2,2)
6. $8x + 3y = -21$, $4x + 5y = -7$ (-3,1)
7. $3x + y = 4$, $x + 3y = 4$ (1,1)
8. $x + y = -1$, $2x - y = -5$ (-2,1)
9. $3x + y = 8$, $x + 2y = 1$ (3,-1)
10. $x + 5y = -7$, $2x + 7y = -8$ (3,-2)