Solving Systems of Linear Equations: Substitution Method
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Solve each system of linear equations by using the substitution method.

1. $\begin{cases} x-3y=4 \\ 6x+5y=1 \end{cases}$

2. $\begin{cases} 2x+y=0 \\ 5x-2y=-18 \end{cases}$

3. $\begin{cases} 4x-3y=-21 \\ x+5y=12 \end{cases}$

4. $\begin{cases} 2x+4y=6 \\ x-y=16 \end{cases}$

5. $\begin{cases} -2x-y=-4 \\ 4x+3y=6 \end{cases}$

6. $\begin{cases} 2x+3y=16 \\ 3x+2y=24 \end{cases}$

7. $\begin{cases} 4x+2y=14 \\ 3x+6y=-3 \end{cases}$

8. $\begin{cases} 8x-5y=-6 \\ 6x+2y=-16 \end{cases}$

Answers

1. $(1,-1)$
2. $(-2,4)$
3. $(-3,3)$
4. $(7,-2)$
5. $(3,-2)$
6. $(8,0)$
7. $(5,-3)$
8. $(-2,-2)$

Please visit the Learning Lab for further assistance.