

Solving Systems of Linear Equations: Substitution Method
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- Solve each system of linear equations by using the substitution method. Answers
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|----|-----------------------------------------------------------|----|------------|
| 1. | $\begin{cases} x - 3y = 4 \\ 6x + 5y = 1 \end{cases}$ | 1. | $(1, -1)$ |
| 2. | $\begin{cases} 2x + y = 0 \\ 5x - 2y = -18 \end{cases}$ | 2. | $(-2, 4)$ |
| 3. | $\begin{cases} 4x - 3y = -21 \\ x + 5y = 12 \end{cases}$ | 3. | $(-3, 3)$ |
| 4. | $\begin{cases} 2x + 4y = 6 \\ x - y = 16 \end{cases}$ | 4. | $(7, -2)$ |
| 5. | $\begin{cases} -2x - y = -4 \\ 4x + 3y = 6 \end{cases}$ | 5. | $(3, -2)$ |
| 6. | $\begin{cases} 2x + 3y = 16 \\ 3x + 2y = 24 \end{cases}$ | 6. | $(8, 0)$ |
| 7. | $\begin{cases} 4x + 2y = 14 \\ 3x + 6y = -3 \end{cases}$ | 7. | $(5, -3)$ |
| 8. | $\begin{cases} 8x - 5y = -6 \\ 6x + 2y = -16 \end{cases}$ | 8. | $(-2, -2)$ |

Please visit the Learning Lab for further assistance.