DO NOW

Solve the system of equations and check

$$2x = y + 2$$

$$x = -y + 7$$

$$2(-y + 7) = y + 2$$

$$x = -(4) + 7$$

$$2(-y + 1) = y + 2$$

$$x = 3$$

$$12 = 3y + 2$$

$$-2$$

$$12 = 3y$$

$$-2$$

$$3 = 3y$$

$$4 = y$$

Mar 8-11:26 AM

Using Elimination to Solve a System of Equations

STEP 1: ADD one equation to another to ELIMINATE one variable

Solve the resulting equation

STEP 2: Substitute the value into either original equation to find the value of the second variable

STEP 3: Check your answer in the original equations!

Find the solution to the system of equations algebraically

$$\begin{cases}
2x + y = 2 \\
+ \{x + y = 7\}
\end{cases}$$

$$\begin{cases}
3 + y = 7 \\
3 + y = 7
\end{cases}$$

$$\begin{cases}
3 + y = 7 \\
3 + y = 7
\end{cases}$$

$$\begin{cases}
3, 1 = 1
\end{cases}$$

$$\begin{cases}
3, 2 = 1$$

Jan 6-3:46 PM

Find the solution to the system of equations algebraically

$$\frac{1}{x+3y=-13} - x - y = 5$$

$$\frac{1}{x+3y=-13} - x - (-4) = 5$$

$$-x + 4 = 5$$

$$-x + 3y = -13$$

$$-x + 4 = 5$$

Find the solution to the system of equations algebraically

$$\begin{cases}
4x + 2y = 12 \\
+ (x + 2y = 8)
\end{cases}$$

$$5x = 20$$

$$x = 4$$

$$x + 2y = 8$$

$$x = 4$$

$$x =$$

Mar 5-8:59 AM

Find the solution to the system of equations algebraically

Find the solution to the system of equations algebraically

$$\begin{cases} x - 6y = 7 \\ -x + 6y = -7 \end{cases}$$

Trus Statement



Mar 5-8:59 AM

Find the solution to the system of equations algebraically

False Stedement

