When variables are not x and y, the <u>final ordered pair</u> solution the variables should be put in *alphabetical order*

Solutions:
If variable = #:
If # ≠ #:
If # = #:

EXAMPLE 1: Solve the linear system by substitution.

If ONE equation is solved for a variable:

 $1) \begin{cases} 2y + x = 19\\ x = y + 4 \end{cases}$

2) $\begin{cases} n = -2m + 1 \\ 2m + n = -2 \end{cases}$

 $3) \begin{cases} 3x - 5y = 22\\ y = -5 \end{cases}$

4) $\begin{cases} d = -6c + 5 \\ -6c - d = 0 \end{cases}$

5)
$$\begin{cases} x + y = 4 \\ 4x + y = 1 \end{cases}$$
 6) $\begin{cases} x - y = 2 \\ 7x - 7y = 14 \end{cases}$

 $7) \begin{cases} -3a + b = 4 \\ -9a + 5b = -1 \end{cases}$

 $8) \begin{cases} x + 3y = -3\\ \frac{1}{3}x + y = 1 \end{cases}$

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Homework:

Examples 1 – 4: Page 408 #17, 18, 21, 30 **Examples 5 – 8:** Page 408 #19, 20, 22 – 29, 31 – 34 Page 430 #20 – 23