

Skill Review (10 points) - Show ALL work necessary.

1) Don'Yae and Jordan each have a pile of writing utensils. Don'Yae starts with 8 pens, and Jordan starts with 5 pencils. Don'Yae loans out 2 pens per day, and Jordan loses 1 pencil per day. If Don'Yae does not get back the pens she lent out until the end of the week, and Jordan never finds his pencils, after how many days do they have the same number of writing utensils left?
Don'Yae
Jordan

| $\mathrm{X}:$ | $\mathrm{Y}:$ |
| :--- | :--- |
| 0 |  |
|  |  |
|  |  |
|  |  |
|  |  |


| $\mathrm{X}:$ | $\mathrm{Y}:$ |
| :--- | :--- |
| 0 |  |
|  |  |
|  |  |
|  |  |
|  |  |

Write equations for the number of writing utensils they each have left.
Don'Yae:
Jordan:

2) Ms. Draper has a filing cabinet containing files from $1^{\text {st }}$ semester and $2^{\text {nd }}$ semester for a combined total of 105 files. So far, she has 45 fewer files from $2^{\text {nd }}$ semester than she has from $1^{\text {st }}$ semester. Find the number of files she has from each semester.


Solve the system by simple elimination. Check your answer for AT LEAST TWO systems.

1) $\begin{aligned}-4 x-2 y & =-12 \\ 4 x+8 y & =-24\end{aligned}$
2) $x-y=11$
$2 x+y=19$
3) $\begin{gathered}2 x+9 y=25 \\ -4 x-9 y=-23\end{gathered}$
4) $-6 x+5 y=1$
$6 x+4 y=-10$
