

Below is a list of flashcards for Chapter 7 - feel free to make more of your own! Here are some suggestions for using them:

- Put the performance criteria for each one in its upper left corner, so you know which performance criterion it is.
- After making the cards, shuffle them well to form a practice deck.
- When checking the answers, focus on the principle(s) involved, not just the answer.
- When you get an item correct, remove its card from the practice deck, to focus on the ones you do not get correct.
- Reinsert cards for which you got the correct answer into the practice deck some time after you got them correct, to make sure you stay refreshed on them.

- 7(a) • **Front:** To solve the system $\begin{array}{l} 3x - 7y = -16 \\ 2x + 5y = 9 \end{array}$ by the addition method we should
- **Back:** multiply the first equation by 2 and the second by -3 OR multiply the first equation by 5 and the second equation by 7
- 7(b) • **Front:** To solve the system $\begin{array}{l} 3x - 7y = -16 \\ x + 5y = 9 \end{array}$ by the substitution method we should begin by
- **Back:** solving the second equation for x to get $x = 9 - 5y$
- 7(b) • **Front:** When solving the system $\begin{array}{l} 3x - 7y = -16 \\ x + 5y = 9 \end{array}$ by the substitution method, after getting $x = 9 - 5y$ we
- **Back:** substitute $9 - 5y$ into $3x - 7y = -16$ for x to get $3(9 - 5y) - 7y = -16$
- 7(c) • **Front:** When solving the system $\begin{array}{l} ax + by = c \\ dx + ey = f \end{array}$ by the addition method we get $0 = 0$.
This tells us that
- **Back:** the system has infinitely many solutions
- 7(c) • **Front:** When solving the system $\begin{array}{l} ax + by = c \\ dx + ey = f \end{array}$ by the addition method we get $0 = 3$.
This tells us that
- **Back:** the system has no solution