Concepts of Algebra 2 Notes

*Objective:

Steps for using SUBSTITUTION 1) Isolate one of the variables.

2) Substitute for that variable in the other equation.

3) Solve for the other variable.

Got It?	1. What is the solution of the system of equations? $\begin{cases} x + 3y = 5 \\ -2x - 4y = -5 \end{cases}$
Got It?	2. An online music company offers 15 downloads for \$19.75 and 40 downloads for \$43.50. Each price includes the same one-time registration fee. What is the cost of each download and the registration fee?

Steps for using ELIMINATION

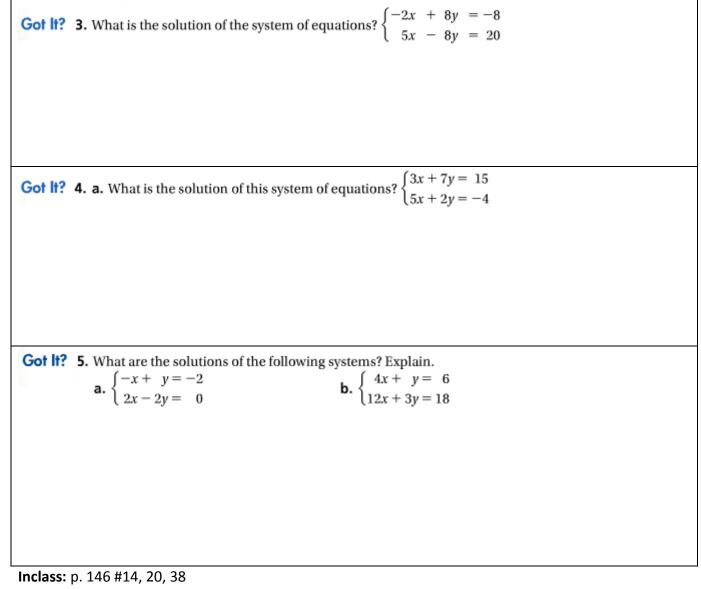
1) Obtain additive inverses by multiplying none, one, or both equations by a number.

2) Add the two equations to eliminate one variable.

3) Solve for the remaining variable.

*<u>equivalent systems</u>:

The answer is NOT always unique. You may get INFITITELY MANY SOLUTIONS or NO SOLUTION.



Inclass: p. 146 #14, 20, 38 Homework: p. 146 #11-41(odd) Interactmath: #10, 13, 15, 19, 22, 24, 26, 33, 34, 37, 41