Solving a system by Elimination

Solve.



Step 1: Look for the variable that has the same coefficient. Add or subtract the system of equations to eliminate that variable and solve for it.

Step 3: Substitute back into one of the equation that you started with and solve for the other variable. Verify your solution.

EX. 1

Solve these linear systems by elimination.

a)

Step 1: Look for the variable that has the same coefficient, if there is none then choose one variable to eliminate. Multiple the equation(s) to get the same coefficient.

Step 2: Add or subtract the system of equations to eliminate that variable and solve for it.

Step 3: Substitute back into one of the equation that you started with and solve for the other variable. Verify your solution.

b)  c) 

c)  d) 

EX. 3

Brad went to Wal-Mart, he found out that two tapes and three CD’s cost $31.00. And three tapes and two CD’s cost $29.00. Find the cost of one tape and one CD.