SOLVE LINEAR SYSTEMS USING ELIMINATION

1. Solve each linear system.

a) $x + 3y = 5$
$5x + 2y = 12$

Multiply one of the equations:		
Add or subtract the equations to eliminate one of the variables and then solve:	Solve for the other variable:	Solution:

b) $3x + 2y = 2$
$x + 4y = 14$

Multiply one of the equations:		
Add or subtract the equations to eliminate one of the variables and then solve:	Solve for the other variable:	Solution:

c) $3x - y = 2$
$2x + 3y = 16$

Multiply one of the equations:		
Add or subtract the equations to eliminate one of the variables and then solve:	Solve for the other variable:	Solution:

2. A local band called Rawk held a concert where 5000 people attended with *x* representing the number of lower bowl tickets and *y* representing the number of upper bowl seating tickets.
This is represented by the equation: ***x* + *y* = 5000**

The lower bowl tickets cost $60 while the upper bowl tickets cost $40. Ticket sales totaled $264 000.
This is represented by the equation: **60*x* + 40*y* = 264 000**

How many lower bowl and upper bowl tickets were sold?