Answers to Review Exercises - Linear Systems of Equations
(TEST WEDNESDAY!)

1.) (1, 5)   2.) (2, 3)   3.) (2, -3)   4.) No Solution   5.) Infinite Solutions

6.) a.) C(x) = 60000 + 200x

   b.) R(X) = 450x

   c.) Break-Even Pt: (240, 108000). The company must produce and sell

   240 desks for their cost and revenue to equal $108000, in which case

   they would break-even ($0 profit).

7.) x = $135 million sell price for the Klimt, y = $104 million sell price for the Picasso

9.) x = $80 a day cost for the hotel , y = $60 a day cost for car rental

10.) x = 10 mL of the 34% solution , y = 90 mL of the 4% solution

11.) x = 630 mph plane (in still air) , y = 90 mph wind

12.) (0, 1, 2)

13.) (2, 1, -1)

14.) $3x^2 - 4x + 5 = 0$ *** *this is a challenge problem!* ***

> **Stuff due on test day:**
> 1.) HW 4.1 Day 1: #'s 4 - 28 evens
> 2.) HW 4.1 Day 2: #'s 32 - 46 evens, 53, 54, 90, 92
> 3.) HW 4.1 Day 3: #'s 55, 57, 61, 64, 67 - 71 all, 73, 75
> 4.) HW 4.1 Day 4 - "Three Variable Systems"
> 5.) Review 4.1