Assignment # 5- Solutions

- **#1.** True or False? Justify your answers.
- (a) If a number is divisible by 8, then it is divisible by 2 and 4.
- (b) If a number is divisible by 2 and 3, then it is divisible by 6.
- (c) If a number is divisible by 2 and 4, then it is divisible by 8.
- #2. Use the Euclidean algorithm to find the GCD(1739, 5291). Show your work.

#3. If GCD(X, 4389) = 33 and LCM(X, 4389) = 566, 181, what is X?

- #4. Use the four-step process to answer the following questions.
- (a) Find the greatest 4-digit number that has exactly three factors.
- (b) Find the least number divisible by each of the natural number less than or equal to 12.