## **Lab 7 Daily Evaluation (4 Marks)**

Consider the following system of linear equations:

$$2x_1 + 3x_2 - x_3 = 8$$
  
 $-x_1 + 2x_2 + 3x_3 = 1$   
 $3x_1 + x_2 = 9 - 2x_3$ 

- (a) Represent this system as an augmented matrix.
- (b) Use Gaussian Elimination to solve this linear system and find the values of  $x_1, x_2, \, {
  m and} \, x_3.$
- c) Find the values of  $x_1$ ,  $x_2$  and  $x_3$  using the inverse matrix method. Did you get the same result in part b and c?