Math 308 E, Spring 2018 quiz 1

You have 5 minutes to complete the quiz. This quiz is out of 10 points.

Name: _____

1. (3 points) Jacob likes fruit. On three occasions, Jacob visited his favorite fruit stand, and kept a record of what he bought and how much it cost:

   Two limes, one basket of blueberries, and three pears costs 13 dollars

   One lime and five baskets of blueberries costs 11 dollars

   One lime and one pear costs 4 dollars

   Use Jacob's data to write a system of three linear equations in the variables L = cost of one lime, B = cost of one basket of blueberries, and P = cost of one pear.

2. (6 points) Use Gaussian elimination to find the reduced eschelon form of your system.

3. (1 point) How much would it cost to buy one lime, one basket of blueberries, and one pear?