# EconS 526- Homework #3 (Due on December 3rd, 2018)

1. A student determined that she has sufficient spare time to attend 24 special events during the school year. Among the events being offered are concerts, hockey games, and theater productions. She feels the ideal balance would be achieved if she attended twice as many concerts as hockey games and if the number of concerts was equal to the average of the number of hockey games and the number of theater productions attended. Use Cramer's rule to determine the number of hockey games she should attend to achieve this ideal balance.
2. Use Cramer's rule to solve the system

$$\frac{4}{7}x - \frac{7}{3}y + \frac{2}{5}z = \frac{14}{9},$$

$$-8x + \frac{5}{8}y - 6z = \frac{13}{9},$$

$$2x + \frac{3}{5}y + \frac{4}{3}z = \frac{10}{3},$$

   Round your answer to two decimal places.

3. Exercise 10.4 (S&B page 204), 10.5 (S&B page 208), 10.11 and 10.13 (S&B page 220),