1. Consider the system of linear equations

$$2x + 3y = 7$$
$$4x - 2y = -10$$

   (a) Find the solution(s) to the system.
   (b) Graph the two lines.
   (c) How is the solution in (a) related to the graph in (b)?

2. Repeat #1 for the system

$$3x + 6y = 2$$
$$-x - 2y = 1$$

3. Repeat #1 for the system

$$2x + 2y = 4$$
$$3x + 3y = 6$$

Find the solution(s) to the following systems

4.
$$x \quad\quad - 3z = -5$$
$$2x + y \quad\quad = 4$$
$$x + 2y + 12z = 9$$

5.
$$x - y + 3z = 2$$
$$y + 2z = -1$$
$$x \quad + 5z = 2$$

6.
$$x_1 + x_2 + x_3 = 2$$
$$x_1 + 2x_2 + x_3 = 3$$
$$2x_1 + 3x_2 + 2x_3 = 5$$