1. What is the result when $3x^3 + 4x^2 - 26x - 16$ is divided by $3x - 8$?

2. Find all solutions of the system of equations *algebraically*. Write your solutions as coordinate points.

$$y = 2x^2 - 11x + 8$$
$$x + y = 8$$

3. Solve the following system of equations for all three variables.

$$5x + 7y + 2z = -7$$
$$9x + 7y + 2z = 5$$
$$2x - 7y - 5z = -2$$