Inconsistent and Dependent Systems and Their Applications

1. Use Gaussian elimination to find the complete solution to each system of equations, or show that none exists (similar to p.574 #2)

$$2x-4y+z=-1$$
$$4x-8y+2z=5$$
$$3x-y-4z=-5$$

2. Use Gaussian elimination to find the complete solution to each system of equations, or show that none exists (similar to p.574 #6)

$$3x-y+6z=1$$
$$2x-3y+z=-13$$
$$x-y-z=-10$$

3. Use Gaussian elimination to find the complete solution to each system of equations, or show that none exists (similar to p.574 #8)

$$x-2y-3z=4$$
$$x+5y-4z=7$$
$$2x-4y-6z=8$$

4. Use Gaussian elimination to find the complete solution to each system of equations, or show that none exists (similar to p.574 #16)

$$5x-y-z=2$$
$$3x+2y-z=4$$