Inconsistent and Dependent
Systems and Their Applications

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1. Use Gaussian elimination to find the
complete solution to each system of
equations, or show that none exists

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

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2. Use Gaussian elimination to find the
complete solution to each system of
equations, or show that none exists

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

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3. Use Gaussian elimination to find the
complete solution to each system of
equations, or show that none exists

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

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4. Use Gaussian elimination to find the
complete solution to each system of
equations, or show that none exists

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