

Groupwork 1: Section 1.1

1. Solve the system.

$$2x + 4y = -4$$

$$5x + 7y = 11$$

2. Come up with a system of equations that satisfy the following conditions.

(a) 2 variables, 2 equations and no solutions.

(b) 2 variables, 3 equations and a unique solution.

(c) 2 variables, 3 equations and infinitely many solutions.

3. Solve.

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

$$3x - 7y + 7z = -8$$

$$-4x + 6y - z = 7$$