

Systems of equations – Substitution method: 3 variables

WS #2

Solve the following equations.

$$2x + 7y - 6z = 14$$

$$-3y + 8z = -18$$

$$3y = -6$$

$$12x - 14y + 3z = 13$$

$$7x - 5z = 14$$

$$4x = -12$$

$$11x + 12y - 8z = 9$$

$$2x - 7z = -14$$

$$5z = 20$$

$$8x + 7y + 14z = 19$$

$$3y + 8z = 11$$

$$7z = -14$$

$$3x - 4y + 9z = 22$$

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

$$8y = 16$$

$$6x + 7y - 8z = -4$$

$$12x - 7y = -2$$

$$4y = 8$$

$$-4x + 7y + 8z = 2$$

$$9x - 4z = -15$$

$$-6z = 18$$

$$-3x + 6y + 5z = 19$$

$$11y + 7z = -9$$

$$3z = 15$$

$$5x - 14y - 9z = 24$$

$$4x - 7y = 9$$

$$3x = 12$$

$$-15x - 7y + 3z = 15$$

$$13x + 4z = 10$$

$$12x = -24$$