

Systems of Equations – Substitution Method: 3 Variables

WS #1

Solve the following equations.

$$6x + 7y + 5z = 20$$

$$12x + 7y = 17$$

$$9x = 18$$

$$11x + 13y - 8z = 17$$

$$-3x - 14y = 1$$

$$2x = 18$$

$$-11x + 9y - 14z = -25$$

$$-5x + 6y = 9$$

$$8x = 24$$

$$12x + 11y + 7z = 22$$

$$8x + 7y = 11$$

$$3x = 12$$

$$4x - 9y + 6z = 22$$

$$-3x + 4y = 7$$

$$2x = -10$$

$$14x - 15y - 12z = 18$$

$$5x - 14y = 2$$

$$4x = 24$$

$$-15x + 14y - 6z = -20$$

$$7x + 5y = 24$$

$$8x = 16$$

$$-2x - 7y + 3z = -15$$

$$7x + 5y = -24$$

$$3x = -21$$

$$3x - 2y + 9z = -20$$

$$4x - 7y = -8$$

$$3x = 15$$

$$11x + 14y + 12z = -16$$

$$-4x - 3y = 21$$

$$2x = -12$$