| Systems of equations – Inverse method: 3 variables | WS #1 |

Solve the following equations.

$$\frac{12}{x} + \frac{13}{y} + \frac{6}{z} = 21$$

$$\frac{6}{x} + \frac{14}{y} + \frac{3}{z} = -12$$

$$\frac{7}{x} + \frac{5}{y} - \frac{4}{z} = -25$$

$$\frac{13}{x} - \frac{15}{y} + \frac{8}{z} = 20$$

$$\frac{-12}{x} + \frac{5}{y} + \frac{4}{z} = 22$$

$$\frac{6}{x} - \frac{1}{y} - \frac{4}{z} = -18$$

$$\frac{3}{x} + \frac{2}{y} - \frac{7}{z} = -2$$

$$\frac{4}{x} - \frac{5}{y} - \frac{2}{z} = 22$$

$$\frac{11}{x} - \frac{12}{y} + \frac{1}{z} = 14$$

$$\frac{5}{x} + \frac{7}{y} - \frac{8}{z} = 3$$

$$\frac{10}{x} + \frac{14}{y} - \frac{13}{z} = 21$$

$$\frac{-6}{x} - \frac{7}{y} + \frac{14}{z} = 24$$

$$\frac{15}{x} - \frac{14}{y} + \frac{8}{z} = 20$$

$$\frac{-12}{x} + \frac{14}{y} + \frac{5}{z} = 18$$

$$\frac{5}{x} - \frac{7}{y} - \frac{8}{z} = -24$$

$$\frac{8}{x} + \frac{7}{y} - \frac{5}{z} = 15$$

$$\frac{-4}{x} + \frac{3}{y} + \frac{7}{z} = 7$$

$$\frac{13}{x} + \frac{15}{y} - \frac{2}{z} = 18$$

$$\frac{2}{x} + \frac{3}{y} + \frac{1}{z} = 23$$

$$\frac{7}{x} + \frac{6}{y} - \frac{2}{z} = -4$$

$$\frac{-4}{x} - \frac{3}{y} + \frac{2}{z} = 13$$

$$\frac{9}{x} + \frac{10}{y} - \frac{7}{z} = -4$$

$$\frac{3}{x} - \frac{10}{y} - \frac{8}{z} = -20$$

$$\frac{5}{x} + \frac{9}{y} - \frac{2}{z} = 6$$