

Taller

$$\frac{y-1}{3} = 0$$

$$y-1=0$$

$$y=1$$

$$\frac{x+y}{4} = 0$$

$$= 0 \rightarrow$$

11.

$$2x + y = 4$$

$$x - y = 2$$

$$\begin{array}{rrr} 2 & 1 & 4 \\ 1 & -1 & 2 \end{array}$$

$$\begin{array}{rrr} 1 & -1 & 2 \\ 2 & 1 & 4 \end{array}$$

$$\begin{array}{rrr} 1 & -1 & 2 \\ 0 & 3 & 0 \end{array}$$

$$\begin{array}{rrr} 1 & 0 & 2 \\ 0 & 1 & 0 \end{array} \quad 1/3$$

$$x = 2$$

$$y = 0$$

12.

$$-x + y = 1$$

$$3x - 2y = 4$$

$$\begin{array}{rrr} -1 & 1 & 1 \\ 3 & -2 & 4 \end{array}$$

$$\begin{array}{rrr} 1 & -1 & -1 \\ 0 & 6 & 7 \end{array}$$

$$\begin{array}{rrr} 1 & -1 & -1 \\ 0 & 1 & 7/6 \end{array}$$

$$\begin{array}{rrr} 1 & 0 & 0,16 \\ 0 & 1 & 7/6 \end{array}$$

$$x = 0,16$$

$$y = 6\sqrt{7} \quad 7/6$$

$$\begin{array}{rr} -3 & = -1 \\ 1 & 1 \end{array}$$

19.

$$\frac{x+3}{4} + \frac{y-7}{3} = 1$$

$$2x - y = 12$$

$$\begin{array}{rrr} -3 & 1 & -1 \\ 2 & -1 & 12 \end{array}$$

$$\begin{array}{rrr} 2 & 1 & 1 \\ -3 & 1 & 1 \end{array}$$

$$\begin{array}{rrr} 1 & 1/2 & 1/2 \\ -3 & 1 & 1 \end{array}$$

$$\begin{array}{rrr} 1 & 1/2 & 1/2 \\ 0 & 3/2 & 5/2 \end{array}$$

$$\begin{array}{rrr} 1 & 1/2 & 1/2 \\ 0 & 1 & 1 \end{array}$$

$$x = 0$$

$$y = 1$$

$$\begin{array}{rrr} 1 & 0 & 0 \\ 0 & 1 & 1 \end{array}$$

23.

$$\frac{x}{4} + \frac{y}{6}$$



37.  $x_1 - x_2 = 0$   
 $3x_1 - 2x_2 = -7$

$$\begin{array}{r} 1 \ -1 \ 0 \\ 3 \ -2 \ -1 \end{array}$$

$$\begin{array}{r} 1 \ -1 \ 0 \\ 0 \ 1 \ -1 \end{array}$$

$$\begin{array}{r} 1 \ 0 \ -1 \\ 0 \ 1 \ -1 \end{array}$$

$$x = 1$$

$$y = -1$$

43.  $\frac{2-z}{4} + \frac{y-1}{3} = 2$

$$\frac{2}{4} - \frac{1}{3} = 2$$

$$\frac{1}{4} - \frac{1}{3} = 2$$

$$\frac{1}{4} - \frac{1}{3} = 2$$

$$x - 3y = 20$$

$$1 \ -3 \ 20$$

$$x = \frac{436}{11}$$

$$y = \frac{-32}{11}$$

$$1 \ -3 \ 20$$

$$0 \ 1 \ -\frac{32}{11}$$

$$1 \ 0 \ -\frac{436}{11}$$

$$0 \ 1 \ -\frac{32}{11}$$

49.  $3x_1 - 2x_2 + 4x_3 = 1$

$$3 \ -2 \ 4 \ 1$$

$$1 \ 1 \ -2 \ 3$$

$$1 \ 1 \ -2 \ 3$$

$$x_1 + x_2 - 2x_3 = 3$$

$$1 \ 1 \ -2 \ 3$$

$$3 \ -2 \ 4 \ 1$$

$$0 \ -5 \ 10 \ -5$$

$$2x_1 - 3x_2 + 6x_3 = 9$$

$$2 \ -3 \ 6 \ 9$$

$$2 \ -3 \ 6 \ 8$$

$$0 \ -5 \ 10 \ 2$$

$$1 \ 1 \ -2 \ 3$$

$$1 \ 0 \ 0 \ 2$$

$$0 \ 1 \ -2 \ 1$$

$$0 \ 1 \ -2 \ 1$$

NO exist

$$0 \ -5 \ 10 \ 2$$

$$0 \ 0 \ 0 \ 7$$

11.  $\begin{array}{r} 1 \ 0 \ 0 \\ 0 \ 1 \ 2 \end{array} \quad \begin{array}{l} x = 0 \\ y = 2 \end{array}$

18.  $\begin{array}{r} 1 \ -1 \ 0 \ 3 \\ 0 \ 1 \ -2 \ 1 \\ 0 \ 0 \ 1 \ -1 \end{array} \quad \begin{array}{r} 1 \ -1 \ 0 \ 3 \\ 0 \ 1 \ -2 \ 1 \\ 0 \ 0 \ 1 \ -1 \end{array} \quad \begin{array}{r} 1 \ 0 \ -2 \ 4 \\ 0 \ 1 \ -2 \ 1 \\ 0 \ 0 \ 1 \ -1 \end{array} \quad \begin{array}{r} 1 \ 0 \ -2 \ 4 \\ 0 \ 1 \ -2 \ 1 \\ 0 \ 0 \ 1 \ -1 \end{array}$

$$1 \ 0 \ 0 \ 2$$

$$0 \ 1 \ -2 \ 1$$

$$0 \ 0 \ 1 \ -1$$

$$1 \ 0 \ 0 \ 2$$

$$0 \ 1 \ 0 \ 1$$

$$0 \ 0 \ 1 \ -1$$

$$x = 2$$

$$y = -1$$

$$z = 1$$

27.

$$\begin{aligned} -x + 2y &= 1.5 \\ 2x + 4y &= 9 \end{aligned}$$

=

$$\begin{aligned} -1 & 2 & 1.5 \\ 2 & 4 & 9 \end{aligned}$$

$$\begin{aligned} 1 & -2 & -1.5 \\ 2 & 4 & 9 \end{aligned}$$

$$\begin{aligned} 1 & -2 & -1.5 \\ 0 & -5 & 5.5 \end{aligned}$$

29.

$$\begin{aligned} -3x + 5y &= -22 \\ 3x + 4y &= 4 \\ 4x - 8y &= 32 \end{aligned}$$

$$\begin{aligned} -3 & 5 & -22 \\ 3 & 4 & 4 \\ 4 & -8 & 32 \end{aligned}$$

$$\begin{aligned} 1 & -\frac{5}{3} & -\frac{22}{3} \\ 3 & 4 & 4 \\ - & - & - \end{aligned}$$

33.