

$$\begin{array}{r}
 1) \quad 3.5 + 7x = 8.4 - 3x \\
 \quad \quad +3x \quad \quad +3x \\
 \hline
 3.5 + 10x = 8.4 \\
 -3.5 \quad -3.5 \\
 \hline
 10x = 4.9 \\
 \frac{10}{10} \quad \frac{4.9}{10} \\
 \hline
 x = .49
 \end{array}$$

$$\begin{array}{r}
 2) \quad 9.12 = 1.0y - 0.4y \\
 \quad \quad 9.12 = .6y \\
 \quad \quad \quad .6 \quad .6 \\
 \hline
 \quad \quad 15.2 = y
 \end{array}$$

$$\begin{array}{r}
 3) \quad 5r + 16.2 = 2(3r - 4.03) \\
 \quad \quad 5r + 16.2 = 6r - 8.06 \\
 \quad \quad -5r \quad -5r \\
 \hline
 \quad \quad 16.20 = r - 8.06 \\
 \quad \quad +8.06 \quad +8.06 \\
 \hline
 \quad \quad 24.26 = r
 \end{array}$$

For 4 & 5, clear of decimals, then solve.

$$\begin{array}{r}
 4) \quad 100 \quad 100 \quad 100 \quad 100 \\
 1.2x - 0.07 - 0.8x = 0.73 \\
 120x - 7 - 80x = 73 \\
 \quad \quad +7 \quad \quad +7 \\
 \hline
 \quad \quad 40x = 80 \\
 \quad \quad \frac{40}{40} \quad \frac{80}{40} \\
 \hline
 \quad \quad x = 2
 \end{array}$$

$$\begin{array}{r}
 5) \quad 10 \quad 10 \quad 10 \\
 0.3y - 2.7 = 3 \\
 3y - 27 = 30 \\
 \quad \quad +27 \quad +27 \\
 \hline
 3y = 57 \\
 \frac{3}{3} \quad \frac{57}{3} \\
 \hline
 y = 19
 \end{array}$$

$$\begin{array}{r}
 6) \quad 67.0 = 100x + 0.4 \\
 \quad \quad - .4 \quad \quad - .4 \\
 \hline
 6.6 = \frac{100x}{100} \\
 \hline
 .066 = x
 \end{array}$$

$$\begin{array}{r}
 7) \quad 3(k - 1.2) = 12k \\
 \quad \quad 3k - 3.6 = 12k \\
 \quad \quad -3k \quad -3k \\
 \hline
 \quad \quad -3.6 = 9k \\
 \quad \quad \quad 9 \quad 9 \\
 \hline
 \quad \quad -.4 = k
 \end{array}$$

$$\begin{array}{r}
 8) \quad 1.0x + 0.4 = 0.3x - 1 \\
 \quad \quad - .3x \quad \quad - .3x \\
 \hline
 .7x + .4 = -1.0 \\
 \quad \quad - .4 \quad \quad - .4 \\
 \hline
 .7x = -1.4 \\
 \quad \quad \frac{.7}{.7} \quad \quad \frac{-1.4}{.7} \\
 \hline
 x = -2
 \end{array}$$

For 9 & 10, clear of decimals, then solve.

$$\begin{array}{r}
 9) \quad 10 \quad 10 \quad 10 \quad 10 \\
 -2y + 5.4 = -2.1 + 0.5y \\
 -20y + 54 = -21 + 5y \\
 \quad \quad +20y \quad \quad +20y \\
 \hline
 \quad \quad 54 = -21 + 25y \\
 \quad \quad +21 \quad +21 \\
 \hline
 \quad \quad 75 = 25y \\
 \quad \quad \frac{75}{25} = \frac{25y}{25} \\
 \hline
 \quad \quad 3 = y
 \end{array}$$

$$\begin{array}{r}
 10) \quad 100 \quad 100 \\
 0.08 = 0.02x \\
 \quad \quad \frac{8}{2} = \frac{2x}{2} \\
 \hline
 \quad \quad 4 = x
 \end{array}$$

$$\begin{array}{r}
 11) \quad 4.7 + 9y - 1.2 = 2y \\
 \quad \quad -9y \quad \quad -9y \\
 \hline
 4.7 + 3.5 = -7y \\
 \quad \quad \frac{4.7}{1.2} \quad \frac{3.5}{-7} \rightarrow \\
 \hline
 7 \overline{) 3.5} \rightarrow \quad \quad \frac{3.5}{-7} = -.5 \\
 \quad \quad -3.5 \\
 \quad \quad \hline
 \quad \quad 0 \\
 \hline
 \quad \quad -.5 = y
 \end{array}$$

$$\begin{array}{r}
 12) \quad 0.3x - 5.8 = 1.0x - 7.9 \\
 \quad \quad - .3x \quad \quad - .3x \\
 \hline
 -5.8 = .7x - 7.9 \\
 \quad \quad +7.9 \quad +7.9 \\
 \hline
 \quad \quad 2.1 = .7x \\
 \quad \quad \quad .7 \quad .7 \\
 \hline
 \quad \quad 3 = x
 \end{array}$$

$$\begin{array}{r}
 13) \quad 2r = -4(2r + 7.1) \\
 \quad \quad 2r = -8r - 28.4 \\
 \quad \quad +8r \quad +8r \\
 \hline
 10r = -28.4 \\
 \quad \quad \frac{10}{10} \quad \frac{-28.4}{10} \\
 \hline
 \quad \quad r = -2.84
 \end{array}$$

For 14 & 15, clear of decimals, then solve.

$$\begin{array}{r}
 14) \quad 100 \quad 100 \quad 100 \quad 100 \\
 -1.02 = 0.3x + 0.48 + 0.2x \\
 -102 = 30x + 48 + 20x \\
 \quad \quad -48 \quad \quad -48 \\
 \hline
 -150 = 50x \\
 \quad \quad \frac{-150}{50} = \frac{50x}{50} \\
 \hline
 \quad \quad -3 = x
 \end{array}$$

$$\begin{array}{r}
 15) \quad 10 \quad 10 \quad 10 \\
 0.4y - 3.1 = 0.5 \\
 4y - 31 = 5 \\
 \quad \quad +31 \quad +31 \\
 \hline
 4y = 36 \\
 \quad \quad \frac{4}{4} \quad \frac{36}{4} \\
 \hline
 \quad \quad y = 9
 \end{array}$$