

$$\begin{aligned}
 1) \quad 2 - (-3a - 8) &= 1 \\
 2 + 3a + 8 &= 1 \\
 10 + 3a &= 1 \\
 \underline{-10} \quad \underline{-10} & \\
 \frac{3a}{3} &= \frac{-9}{3} \\
 a &= -3
 \end{aligned}$$

$$\begin{aligned}
 3) \quad -5(-4 + 2v) &= -50 \\
 20 - 10v &= -50 \\
 \underline{-20} \quad \underline{-20} & \\
 -\frac{10v}{-10} &= -\frac{70}{-10} \\
 v &= 7
 \end{aligned}$$

$$\begin{aligned}
 5) \quad 66 &= 6(6 + 5x) \\
 66 &= 36 + 30x \\
 \underline{-36 - 36} & \\
 \frac{30}{30} &= \frac{30x}{30} \\
 1 &= x
 \end{aligned}$$

$$\begin{aligned}
 7) \quad 0 &= -8(p - 5) \\
 0 &= -8p + 40 \\
 \underline{-40} \quad \underline{-40} & \\
 \frac{-40}{-8} &= \frac{-8p}{-8} \\
 5 &= p
 \end{aligned}$$

$$\begin{aligned}
 9) \quad -2 + 2(8x - 7) &= -16 \\
 -2 + 16x - 14 &= -16 \\
 16x - 16 &= -16 \\
 \underline{+16} \quad \underline{+16} & \\
 \frac{16x}{16} &= \frac{0}{16} \\
 x &= 0
 \end{aligned}$$

$$\begin{aligned}
 11) \quad -21x + 12 &= -6 - 3x \\
 \underline{+21x} \quad \underline{+21x} & \\
 12 &= -6 + 18x \\
 \underline{+6} \quad \underline{+6} & \\
 \frac{18}{18} &= \frac{18x}{18} \\
 1 &= x
 \end{aligned}$$

$$\begin{aligned}
 13) \quad -1 - 7m &= -8m + 7 \\
 \underline{+8m} \quad \underline{+8m} & \\
 -1 + m &= 7 \\
 \underline{+1} \quad \underline{+1} & \\
 m &= 8
 \end{aligned}$$

$$\begin{aligned}
 15) \quad 1 - 12r &= 29 - 8r \\
 \underline{+12r} \quad \underline{+12r} & \\
 1 &= 29 + 4r \\
 \underline{-29 - 29} & \\
 \frac{-28}{4} &= \frac{4r}{4} \\
 -7 &= r
 \end{aligned}$$

$$\begin{aligned}
 17) \quad 20 - 7b &= -12b + 30 \\
 \underline{+12b} \quad \underline{+12b} & \\
 20 + 5b &= 30 \\
 \underline{-20} \quad \underline{-20} & \\
 \frac{5b}{5} &= \frac{10}{5} \\
 b &= 2
 \end{aligned}$$

$$\begin{aligned}
 19) \quad -32 - 24v &= 34 - 2v \\
 \underline{+24v} \quad \underline{+24v} & \\
 -32 &= 34 + 22v \\
 \underline{-34 - 34} & \\
 \frac{-66}{22} &= \frac{22v}{22} \\
 -3 &= v
 \end{aligned}$$

$$\begin{aligned}
 21) \quad -2 - 5(2 - 4m) &= 33 + 5m \\
 -2 - 10 + 20m &= 33 + 5m \\
 -12 + 20m &= 33 + 5m \\
 \underline{-5m} \quad \underline{-5m} & \\
 -12 + 15m &= 33 \\
 \underline{+12} \quad \underline{+12} & \\
 \frac{15m}{15} &= \frac{45}{15} \\
 m &= 3
 \end{aligned}$$

$$\begin{aligned}
23) \quad & -4n + 11 = 2(1 - 8n) + 3n \\
& -4n + 11 = 2 - 16n + 3n \\
& -4n + 11 = 2 - 13n \\
& \underline{+13n \qquad +13n} \\
& 9n + 11 = 2 \\
& \underline{-11 \quad -11} \\
& \frac{9n}{9} = \frac{-9}{9} \\
& n = -1
\end{aligned}$$

$$\begin{aligned}
25) \quad & -6v - 29 = -4v - 5(v + 1) \\
& -6v - 29 = -4v - 5v - 5 \\
& -6v - 29 = -9v - 5 \\
& \underline{+9v \qquad +9v} \\
& 3v - 29 = -5 \\
& \underline{+29 \quad +29} \\
& \frac{3v}{3} = \frac{24}{3} \\
& v = 8
\end{aligned}$$

$$\begin{aligned}
27) \quad & 2(4x - 4) = -20 - 4x \\
& 8x - 8 = -20 - 4x \\
& \underline{+4x \qquad +4x} \\
& 12x - 8 = -20 \\
& \underline{+8 \quad +8} \\
& \frac{12x}{12} = \frac{-12}{12} \\
& x = -1
\end{aligned}$$

$$\begin{aligned}
29) \quad & -a - 5(8a - 1) = 39 - 7a \\
& -a - 40a + 5 = 39 - 7a \\
& -41a + 5 = 39 - 7a \\
& \underline{+41a \qquad +41a} \\
& 5 = 39 + 34a \\
& \underline{-39 \quad -39} \\
& \frac{-34}{34} = \frac{34a}{34} \\
& -1 = a
\end{aligned}$$

$$\begin{aligned}
31) \quad & -57 = -(-p + 1) + 2(6 + 8p) \\
& -57 = p - 1 + 12 + 16p \\
& -57 = 17p + 11 \\
& \underline{-11 \quad -11} \\
& \frac{-68}{17} = \frac{17p}{17} \\
& -4 = p
\end{aligned}$$

$$\begin{aligned}
33) \quad & -2(m - 2) + 7(m - 8) = -67 \\
& -2m + 4 + 7m - 56 = -67 \\
& 5m - 52 = -67 \\
& \underline{+52 \quad +52} \\
& \frac{5m}{5} = \frac{-15}{5} \\
& m = -3
\end{aligned}$$

$$\begin{aligned}
35) \quad & 50 = 8(7 + 7r) - (4r + 6) \\
& 50 = 56 + 56r - 4r - 6 \\
& 50 = 52r + 50 \\
& \underline{-50 \quad -50} \\
& \frac{0}{52} = \frac{52r}{52} \\
& 0 = r
\end{aligned}$$

$$\begin{aligned}
37) \quad & -8(n - 7) + 3(3n - 3) = 41 \\
& -8n + 56 + 9n - 27 = 41 \\
& n + 47 = 41 \\
& \underline{-47 \quad -47} \\
& n = -6
\end{aligned}$$

$$\begin{aligned}
39) \quad & -61 = -5(5r - 4) + 4(3r - 4) \\
& -61 = -25r + 20 + 12r - 16 \\
& -61 = -13r + 4 \\
& \underline{-4 \quad -4} \\
& \frac{-65}{-13} = \frac{-13r}{-13} \\
& 5 = r
\end{aligned}$$

$$\begin{aligned}
41) \quad & -2(8n - 4) = 8(1 - n) \\
& -16n + 8 = 8 - 8n \\
& \underline{+16n \qquad +16n} \\
& 8 = 8 + 8n \\
& \underline{-8 \quad -8} \\
& \frac{0}{8} = \frac{8n}{8} \\
& 0 = n
\end{aligned}$$

$$\begin{aligned}
43) \quad & -3(-7v + 3) + 8v = 5v - 4(1 - 6v) \\
& 21v - 9 + 8v = 5v - 4 + 24v \\
& 29v - 9 = 29v - 4 \\
& \underline{-29v \quad -29v} \\
& -9 = -4 \\
& \text{false, No Solution } \emptyset
\end{aligned}$$

$$45) -7(x - 2) = -4 - 6(x - 1)$$

$$-7x + 14 = -4 - 6x + 6$$

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

$$\begin{array}{r} +7x \\ \hline + 7x \end{array}$$

$$14 = 2 + x$$

$$\begin{array}{r} -2 \\ \hline -2 \end{array}$$

$$12 = x$$

$$47) -6(8k + 4) = -8(6k + 3) - 2$$

$$-48k - 24 = -48k - 24 - 2$$

$$-48k - 24 = -48k - 26$$

$$\begin{array}{r} +48k \\ \hline + 48k \end{array}$$

$$-24 = -26$$

false

No Solution \emptyset

$$49) -2(1 - 7p) = 8(p - 7)$$

$$-2 + 14p = 8p - 56$$

$$\begin{array}{r} -8p \\ \hline -8p \end{array}$$

$$-2 + 6p = -56$$

$$\begin{array}{r} +2 \\ \hline +2 \end{array}$$

$$\frac{6p}{6} = \frac{-54}{6}$$

$$p = -9$$