

$$\textcircled{e} \frac{2a-9}{-3} = \frac{3a+8}{5}$$

$$5(2a-9) = -3(3a+8)$$

$$10a-45 = -9a-24$$

$$\begin{array}{r} +9a \qquad +9a \\ \hline 19a-45 = -24 \\ +45 \quad +45 \\ \hline 19a = 21 \end{array}$$

$$a = \frac{21}{19}$$

$$\frac{2x-5}{3} = \frac{3x-8}{5}$$

$$5(2x-5) = 3(3x-8)$$

$$10x-25 = 9x-24$$

$$\begin{array}{r} -9x \qquad -9x \\ \hline x-25 = -24 \\ +25 \quad +25 \\ \hline x = 1 \end{array}$$

$$\frac{m+10}{7} = \frac{m-4}{5}$$

$$5(m+10) = 7(m-4)$$

$$5m+50 = 7m-28$$

$$\begin{array}{r} -5m \qquad -5m \\ \hline 50 = 2m-28 \\ +28 \qquad +28 \\ \hline 78 = 2m \end{array}$$

$$m = \frac{78}{2} = 39$$

$$\textcircled{f} \frac{2a-9}{-3a+2} = \frac{8}{5}$$

$$5(2a-9) = 8(-3a+2)$$

$$10a-45 = -24a+16$$

$$\begin{array}{r} -10a \qquad -10a \\ \hline -45 = -34a+16 \\ -16 \qquad -16 \\ \hline -61 = -34a \end{array}$$

$$a = \frac{61}{34}$$

$$\frac{m+10}{5m+2} = \frac{4}{3}$$

$$3(m+10) = 4(5m+2)$$

$$3m+30 = 20m+8$$

$$\begin{array}{r} -3m \qquad -3m \\ \hline 30 = 17m+8 \\ -8 \qquad -8 \\ \hline 22 = 17m \end{array}$$

$$m = \frac{22}{17}$$

$$\frac{2-9f}{5-f} = \frac{10}{15}$$

$$15(2-9f) = 10(5-f)$$

$$30-135f = 50-10f$$

$$\begin{array}{r} +135f \qquad +135f \\ \hline 30 = 50+125f \\ -50 \qquad -50 \\ \hline -20 = 125f \end{array}$$

$$f = \frac{-20}{125} = -\frac{4}{25}$$

$$\textcircled{g} \frac{9}{-1} = \frac{8s+9}{5s-10}$$

$$9(5s-10) = -(8s+9)$$

$$45s-90 = -8s-9$$

$$\begin{array}{r} +8s \qquad +8s \\ \hline 53s-90 = -9 \\ +90 \quad 90 \\ \hline 53s = 81 \end{array}$$

$$s = \frac{81}{53}$$

$$\frac{3}{4} = \frac{t+3}{t-8}$$

$$3(t-8) = 4(t+3)$$

$$3t-24 = 4t+12$$

$$\begin{array}{r} -3t \qquad -3t \\ \hline -24 = t+12 \\ -12 \qquad -12 \\ \hline -36 = t \end{array}$$

$$\frac{24}{8} = \frac{k}{10k-8}$$

$$24(10k-8) = 8k$$

$$240k-192 = 8k$$

$$\begin{array}{r} -8k \qquad -8k \\ \hline 232k-192 = 0 \\ +192 \quad 192 \\ \hline 232k = 192 \end{array}$$

$$k = \frac{192}{232} = \frac{24}{29}$$

$$\textcircled{h} \frac{6}{-y+8} = \frac{8}{5y-10}$$

$$6(5y-10) = 8(-y+8)$$

$$30y-60 = -8y+64$$

$$\begin{array}{r} 8y \qquad +8y \\ \hline 38y-60 = 64 \\ +60 \quad 60 \\ \hline 38y = 124 \end{array}$$

$$y = \frac{124}{38} = \frac{31}{9}$$

$$\frac{16}{3-w} = \frac{8}{w+5}$$

$$16(w+5) = 8(3-w)$$

$$16w+80 = 24-8w$$

$$\begin{array}{r} 8w \qquad +8w \\ \hline 24w+80 = 24 \\ -80 \quad -80 \\ \hline 24w = -56 \end{array}$$

$$w = \frac{-56}{24} = -\frac{7}{3}$$

$$\frac{45}{u+8} = \frac{3}{5u-10}$$

$$45(5u-10) = 3(u+8)$$

$$225u-450 = 3u+24$$

$$\begin{array}{r} -3u \qquad -3u \\ \hline 222u-450 = 24 \\ +450 \quad 450 \\ \hline 222u = 474 \end{array}$$

$$u = \frac{474}{222} = \frac{31}{9}$$