

Equations

$$\begin{aligned}
 1) \quad 4x - 3 &= -5 \\
 4x &= -5 + 3 \\
 4x &= -2 \\
 x &= \frac{-2}{4} \\
 \boxed{x &= -\frac{1}{2}}
 \end{aligned}$$

$$\begin{aligned}
 3) \quad 5x - \frac{4}{7} &= 3 \\
 5x &= 3 + \frac{4}{7} \\
 5x &= \frac{25}{7} \\
 x &= \frac{25}{7} : 5 \\
 x &= \frac{25}{7} \times \frac{1}{5} \\
 x &= \frac{5 \times 5}{7 \times 5} \\
 \boxed{x &= \frac{5}{7}}
 \end{aligned}$$

$$\begin{aligned}
 5) \quad \frac{3x-4}{2} &= 5 \\
 3x-4 &= 10 \\
 3x &= 14 \\
 \boxed{x &= \frac{14}{3}}
 \end{aligned}$$

$$7) \quad \frac{x+7}{5} = \frac{3}{2}$$

Methode 1:

$$\begin{aligned}
 x+7 &= \frac{3}{2} \times 5 \\
 x+7 &= \frac{15}{2} \\
 x &= \frac{15}{2} - 7 \\
 x &= \frac{15-14}{2} \\
 \boxed{x &= \frac{1}{2}}
 \end{aligned}$$

$$\begin{aligned}
 2) \quad \frac{x}{3} - 6 &= 4 \\
 \frac{x}{3} &= 10 \\
 x &= 10 \times 3 \\
 \boxed{x &= 30}
 \end{aligned}$$

$$\begin{aligned}
 4) \quad 3 - \frac{x}{4} &= \frac{6}{5} \\
 -\frac{x}{4} &= \frac{6}{5} - 3 \\
 -\frac{x}{4} &= \frac{6-15}{5} \\
 -\frac{x}{4} &= \frac{-9}{5} \\
 \frac{x}{4} &= \frac{9}{5} \\
 x &= \frac{9}{5} \times 4 \\
 \boxed{x &= \frac{36}{5}}
 \end{aligned}$$

$$\begin{aligned}
 6) \quad \frac{5-x}{4} &= -2 \\
 5-x &= -2 \times 4 \\
 5-x &= -8 \\
 -x &= -8-5 \\
 -x &= -13 \\
 \boxed{x &= 13}
 \end{aligned}$$

Methode 2 Produkt en croix

$$\begin{aligned}
 \frac{x+7}{5} &= \frac{3}{2} \\
 2(x+7) &= 3 \times 5 \\
 2x+14 &= 15 \\
 2x &= 15-14 \\
 2x &= 1 \\
 x &= \frac{1}{2}
 \end{aligned}$$

$$\begin{aligned}
 8) \quad \frac{8-2x}{7} - 1 &= -3 \\
 \frac{8-2x}{7} &= -3+1 \\
 \frac{8-2x}{7} &= -2 \\
 8-2x &= -14 \\
 -2x &= -14-8 \\
 -2x &= -22 \\
 2x &= 22 \\
 x &= \frac{22}{2} \\
 \boxed{x &= 11}
 \end{aligned}$$

$$\begin{aligned}
 10) \quad \frac{2x}{5} - \frac{1}{3} &= \frac{-3}{5} \\
 \frac{2x}{5} &= \frac{-3}{5} + \frac{1}{3} \\
 \frac{2x}{5} &= \frac{-9+5}{15} \\
 \frac{2x}{5} &= \frac{-4}{15}
 \end{aligned}$$

ou

$$\begin{aligned}
 2x &= \frac{-4}{15} \times 5 \\
 2x &= \frac{-4 \times 5}{3 \times 3}
 \end{aligned}$$

$$\begin{aligned}
 2x &= \frac{-4}{3} \\
 x &= \frac{-4}{3} : 2 \\
 x &= \frac{-4}{3} \times \frac{1}{2} \\
 \boxed{x &= \frac{-2}{3}}
 \end{aligned}$$

$$\begin{aligned}
 9) \quad \frac{-x}{6} - \frac{4}{7} &= \frac{-1}{3} \\
 \frac{-x}{6} &= \frac{-1}{3} + \frac{4}{7} \\
 \frac{-x}{6} &= \frac{-7+12}{21} \\
 \frac{-x}{6} &= \frac{5}{21} \\
 -x &= \frac{5}{21} \times 6 \\
 -x &= \frac{5 \times 6}{7 \times 3} \\
 -x &= \frac{10}{7} \\
 \boxed{x &= -\frac{10}{7}}
 \end{aligned}$$

$$\begin{aligned}
 \frac{6x}{15} &= \frac{-4}{15} \\
 6x &= -4 \\
 x &= \frac{-4}{6} \\
 \boxed{x &= \frac{-2}{3}}
 \end{aligned}$$