

1.

$$\begin{aligned}
 \frac{-5}{19} - \frac{-5}{-17} &= \frac{-5 \times 17}{19 \times 17} - \frac{5 \times 19}{17 \times 19} \\
 &= \frac{-85 - 95}{323} \\
 &= \frac{-180}{323} \\
 &= -\frac{180}{323}
 \end{aligned}$$

Hence solution is: $x = -\frac{180}{323}$

2.

$$\begin{aligned}
 \frac{5}{12} \div \frac{-6}{13} &= \frac{5}{12} \times \frac{-13}{6} \\
 &= \frac{5 \times (-13)}{12 \times 6} \\
 &= \frac{-65}{72} \\
 &= -\frac{65}{72}
 \end{aligned}$$

Hence solution is: $y = -\frac{65}{72}$

3.

$$\begin{aligned}
 \frac{-13}{5} + \frac{-3}{-18} &= \frac{-13 \times 18}{5 \times 18} + \frac{3 \times 5}{18 \times 5} \\
 &= \frac{-234 + 15}{90} \\
 &= \frac{-219}{90} \\
 &= -\frac{73}{30} \\
 &= -2\frac{13}{30}
 \end{aligned}$$

Hence solution is: $z = -2\frac{13}{30}$

4.

$$\begin{aligned}\frac{3}{2} - \frac{-3}{17} &= \frac{3 \times 17}{2 \times 17} + \frac{3 \times 2}{17 \times 2} \\ &= \frac{51 + 6}{34} \\ &= \frac{57}{34} \\ &= 1\frac{23}{34}\end{aligned}$$

Hence solution is: $y = 1\frac{23}{34}$

5.

$$\begin{aligned}\frac{-10}{20} \times \frac{7}{13} &= \frac{\cancel{10} \times (-1)}{\cancel{10} \times 2} \times \frac{7}{13} \\ &= \frac{-1}{2} \times \frac{7}{13} \\ &= \frac{-1 \times 7}{2 \times 13} \\ &= \frac{-7}{26} \\ &= -\frac{7}{26}\end{aligned}$$

Hence solution is: $z = -\frac{7}{26}$