

$$M8 - 10.4 - \frac{ax}{bx} = \frac{c}{d} \text{ HW}$$

$$\frac{ax}{b} = \frac{a}{b}x$$

Solve for x by cross multiplying.

$$\begin{aligned} \frac{2x}{6} &= \frac{4}{3} \\ 3 \times 2x &= 4 \times 6 \\ 6x &= 24 \\ \frac{6x}{6} &= \frac{24}{6} \\ x &= 4 \end{aligned}$$

$$\begin{aligned} \frac{2x}{6} &= \frac{4}{3} \\ 2(4) &= \frac{4}{3} \\ \frac{8}{6} &= \frac{4}{3} \\ \frac{4}{3} &= \frac{4}{3} \end{aligned}$$

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

$$\begin{aligned} \frac{2}{3}x &= \frac{5}{7} \\ \frac{2}{3} \left(\frac{15}{14} \right) &= \frac{5}{7} \\ \frac{5}{7} &= \frac{5}{7} \end{aligned}$$

$$\frac{2}{3}x = \frac{4}{5}$$

$$\frac{2}{7}x = \frac{1}{4}$$

$$\frac{9}{4}x = \frac{7}{2}$$

$$\frac{1}{8} = \frac{2}{4}x$$

$$\frac{4}{3x} = \frac{2}{3}$$

$$\frac{2}{3x} = \frac{4}{3}$$

$$\frac{1}{8} = \frac{2}{4x}$$

$$\begin{aligned} \frac{2}{9}x &= \frac{2}{9} \\ \frac{1}{9}x &= \frac{2}{9} \\ \frac{3}{5}x &= \frac{9}{10} \end{aligned}$$

$$\begin{aligned} \frac{3x}{4} &= \frac{6}{8} \\ -3x &= \frac{6}{2} \\ \frac{5}{4} &= \frac{7}{6} \\ \frac{5}{5}x &= \frac{6}{7} \end{aligned}$$

$$\begin{aligned} \frac{2x}{3} &= \frac{1}{2} \\ \frac{1x}{-9} &= \frac{2}{7} \\ \frac{a}{b}x &= \frac{c}{d} \end{aligned}$$

$$\begin{aligned} \frac{5}{x} &= \frac{7}{4} \\ \frac{3}{3} &= \frac{9}{9} \\ \frac{3x}{5} &= \frac{2}{10} \\ \frac{5}{2} &= \frac{7}{2x} \end{aligned}$$

$$\begin{aligned} \frac{1}{a} &= \frac{-2}{7} \\ -\frac{2x}{a} &= \frac{7}{a} \\ -\frac{1}{b} &= \frac{7}{bx} \end{aligned}$$