

$$3) \quad 4x - \frac{5x+6}{6} = \frac{3x-3}{18} - \frac{x}{3}$$

$$\frac{24x - 5x + 6}{6} = \frac{6x - 6 - 18x}{54}$$

$$\times 6 \quad \frac{19x+6}{6} = \frac{-12x-6}{54} \quad \times 6$$

$$\hookrightarrow 19x+6 = \frac{(-12x-6) \times 6}{54} \quad \times 6$$

$$\times 54 \quad \frac{19x+6}{6} = \frac{-72x-36}{54} \quad \times 54$$

$$\hookrightarrow (19x+6) \times 54 = -72x - 36$$

$$1026x + 324 = -72x - 36$$

$$\begin{array}{r} -72x \\ \hline \end{array} \hookrightarrow 954x + 324 = -36 \quad \times -72x$$

$$\begin{array}{r} -324 \\ \hline \end{array} \hookrightarrow 954x = -360$$

$$\div 954 \quad \hookrightarrow x = \frac{-360}{954}$$

$$x = \frac{-20}{53}$$