

$$2x^2 + 5x - 7 = 0$$

$$\frac{2x^2}{2x} - \frac{2x}{2x} + \frac{7x}{1} - \frac{7}{1} = 0$$

$$2x(x-1) + 7(x-1) = 0$$

$$(x-1)(2x+7) = 0$$

$$\begin{array}{r} x-1=0 \\ +1 \quad +1 \\ \hline x=1 \end{array}$$

$$\begin{array}{r} 2x+7=0 \\ -7 \quad -7 \\ \hline 2x=-7 \\ \frac{2x}{2} = \frac{-7}{2} \end{array}$$

$$x = -\frac{7}{2}$$

$$\begin{array}{r} 2(-7) \checkmark \\ -14 \\ \hline 1 \cdot 14 \\ 2 \cdot 7 \\ -2, +7 \end{array}$$

$$\frac{6x^2}{2} - \frac{2x}{2} - \frac{20}{2} = 0$$

$$2(3x^2 - x - 10) = 0$$

$$2\left(\frac{3x^2}{x} + \frac{5x}{x} - \frac{6x}{2} - \frac{10}{2}\right) = 0$$

$$2[x(3x+5) - 2(3x+5)] = 0$$

$$2(3x+5)(x-2) = 0$$

~~2=0~~

$$3x+5=0$$

$$\frac{-5}{3} \quad \frac{-5}{3}$$

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

$$x-2=0$$

$$+2 \quad +2$$

$$x=2$$

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

$$\begin{array}{r} 3(-10) \\ -30 \\ \hline 1 \cdot 30 \\ 2 \cdot 15 \\ 3 \cdot 10 \\ 5 \cdot 6 \end{array}$$

+5, -6

$$35. \quad x^2 - x = \boxed{12}$$

$$x^2 - x - 12 = 0$$

$$\hookrightarrow (x+3)(x-4) = 0$$

$$x+3=0 \quad x-4=0$$

$$\begin{array}{r} -3 \\ \hline x = -3 \end{array} \quad \begin{array}{r} +4 \quad +4 \\ \hline x = 4 \end{array}$$

$$\begin{array}{r} -12 \\ \hline 1 \cdot 12 \\ 2 \cdot 6 \\ 3 \cdot 4 \end{array}$$

$$3, -4$$

$$\boxed{x^2 + 3x} - \boxed{4x - 12}$$