

$$7) a) (5x-2)(3-2x) = -10x^2 + 19x - 6$$

$$\begin{array}{r} 5x - 2 \\ \otimes \underline{-2x + 3} \\ +15x - 6 \\ -10x^2 + 4x \\ \hline -10x^2 + 19x - 6 \end{array}$$

$$b) x(x-3)(2x-1) =$$

$$\begin{array}{r} x-3 \\ \otimes \underline{2x-1} \\ -x+3 \\ \hline 2x^2-6x \\ \hline 2x^2-7x+3 \\ \otimes \underline{\quad +x} \\ \hline 2x^3-7x^2+3x \end{array} = 2x^3 - 7x^2 + 3x$$

$$c) (x^2 - 5x)(x^3 + 2x) = x^5 - 5x^4 + 2x^3 - 10x^2$$

$$\begin{array}{r} x^3 \quad + 2x \\ \otimes \underline{x^2 - 5x} \\ -5x^4 \quad - 10x^2 \\ \hline x^5 \quad + 2x^3 \\ \hline x^5 - 5x^4 + 2x^3 - 10x^2 \end{array}$$

$$d) (3x^3 + 1)(2x^2 - 3x + 5) = 6x^5 - 9x^4 + 15x^3 + 2x^2 - 3x + 5$$

$$\begin{array}{r} 2x^2 - 3x + 5 \\ \otimes \underline{3x^3 + 1} \\ +2x^2 - 3x + 5 \\ \hline 6x^5 - 9x^4 + 15x^3 \end{array}$$