

$$* \textcircled{1} (-2x^5 + 3x^3 - 2x^2 + 4) + (5x^4 - 6x^3 + 4x - 8)$$

$$-2x^5 + \underline{3x^3} - 2x^2 + \textcircled{+4} + 5x^4 - \underline{6x^3} + 4x \textcircled{-8}$$

$$\cancel{-2x^5 + 3x^3} - 6x^3 - 2x^2 + \textcircled{+4-8} + 5x^4 + 4x$$

$$-2x^5 - 4$$

$$-2x^5 - 3x^3 - 2x^2 - 4 + 5x^4 + 4x$$

$$\rightarrow -2x^5 + 5x^4 - 3x^3 - 2x^2 + 4x - 4$$

$$\begin{array}{ccccccc} -2x^5 & & +3x^3 & -2x^2 & & & +4 \\ & 5x^4 & -6x^3 & & & +4x & -8 \\ \hline \end{array}$$

$$\rightarrow -2x^5 + 5x^4 - 3x^3 - 2x^2 + 4x - 4$$