First identify the like terms. Then combine them by adding coefficients.

 $-x^{5}+2x^{5}+6x^{4}-6x^{3}+x^{0}-1 = (-1+2)x^{5}+6x^{4}-6x^{3}+(1-1) = x^{5}+6x^{4}-6x^{3}$