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$K = x^{501} + 3x^7 - \frac{1}{2}(x^6) + x^5$
$+ 2x^3 + 3x^2 - 1$
$501 \times 500 + 3(7x^6) - x^3 + 5x^4$
$+ 2(3x^2) + 3(2x) - 1$
$501x^{500} + 21x^6 + 3x^2 + 5x^4$
$+ 6x^2 + 6x - 1$
$501x^{500} + 21x^6 + 3x^2 + 5x^4$
$+ 6x(x) + 6x - 1$
$501x^{500} + 21(6x^5) + 3x + 6x + x + x - 1$
$501x^{500} + 126x^5 + 9x + 2x - 1$
$501x^{500} + 126x^5 + 11x - 1$
$501x^{500} + 126x^5 + 11x$
$501(500x^{499}) + 126(5x^4) + 11x$
$250,500x^{499} + 630x^4 + 11x$
$250500(499x^{498}) + 630(4x^3) + 11x$
$124,999,500x^{498} + 2,520x^3 + 11x$