

eq of
adding

$$(2x^2 - 3x + 7) + (x^4 - x) = x^4 + 0x^3 + 2x^2 - 4x + 7$$

multiplying
by scalar

$$2(-x^5 + 240) = -2x^5 + 480$$

P(F) = POLYNOMIALS OF ANY DEGREE.

$$= \left\{ x^{1000000-7}, x^{2014} + \pi x^{100}, \dots \right\}$$

This ex #4 is not contained in ex #3 ^{which contains} #1 & #2