$$[I-x](I+x+\cdots+x^{k-1})$$

$$= I+kt\cdots+k^{-1} - (x+x^2+\cdots+x^{k'}+x^k)$$

$$= I-x^k$$

$$[I-x]$$

$$A^k = 0$$

$$(E-A) = [En+A+\cdots+A^{k-1}] = En-A^k = En$$

$$(E-A) = [En+A+\cdots+A^{k-1}] = En-A^k = En$$

$$[E-A] = [En+A+\cdots+A^{k-1}] = En-A^k = En$$

$$f(x) = a_0 + a_1At + a_{m-1}A^{m-1} + A^m$$

$$f(x) = a_0 + a_1At + a_{m-1}A^{m-1} + A^m$$

$$f(x) = 0 \quad \text{if } AA - A = 0$$

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