1) 
$$p(x) = a + v \times^{2}$$
 $||e||_{L} = ||Ap - y||_{L}$ 
 $||a||_{L} = ||Ap - y||_{L}$ 
 $||a||_{L} = ||Ap - y||_{L}$ 
 $||a||_{L} = ||a||_{L} = ||a||_{L}$ 

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3)
a) 
$$A^{T}A \times = A^{T}B$$

$$\Rightarrow \begin{pmatrix} 1 & 1 \\ 1 & 0 \end{pmatrix} \begin{pmatrix} 1 & 2 & 1 \\ 1 & 0 \end{pmatrix} \times = \begin{pmatrix} 1 & 1 \\ 2 & 0 \\ 0 & 1 & 2 \end{pmatrix} \times = \begin{pmatrix} 1 & 1 \\ 2 & 0 \\ 0 & 1 & 2 \end{pmatrix} \times = \begin{pmatrix} 1 & 1 \\ 2 & 0 \\ 0 & 1 & 2 \end{pmatrix} \times = \begin{pmatrix} 1 & 1 \\ 2 & 0 \\ 0 & 1 & 2 \end{pmatrix} \times = \begin{pmatrix} 1 & 1 \\ 2 & 0 \\ 0 & 1 & 2 \end{pmatrix} \times = \begin{pmatrix} 1 & 1 \\ 2 & 0 \\ 0 & 1 & 2 \end{pmatrix} \times = \begin{pmatrix} 1 & 1 \\ 2 & 0 \\ 0 & 1 \end{pmatrix} \times = \begin{pmatrix} 1 & 1 \\ 2 & 0 \\ 0 & 1 \end{pmatrix} \times = \begin{pmatrix} 1 & 1 \\ 2 & 0 \\ 0 & 1 \end{pmatrix} \times = \begin{pmatrix} 1 & 1 \\ 2 & 0 \\ 0 & 1 \end{pmatrix} \times = \begin{pmatrix} 1 & 1 \\ 1 & 1 \\ 1 & 1 \end{pmatrix} \times = \begin{pmatrix} 1 & 1 \\ 1 & 1 \\ 1 & 1 \end{pmatrix} \times = \begin{pmatrix} 1$$

Singulative Le:

$$\sigma_1 = \sqrt{6}$$
  $\sigma_2 = \sqrt{2}$