3.70] solution problem 3.70.

a) We remind that is V= |V| e;

then  $\pi(y) = \frac{|y|}{|y|} = \sqrt{\epsilon_{ii}}$ 

Stretch for e, ~~ 3

" e<sub>2</sub> ~ D 2

Streck for e3 ~ 0.6

b) Stretch in the direction e, + e2. NO we defined | Y = 1 = + e2

$$\underline{\sigma} \cdot \underline{\sigma} = \underline{\vee} \cdot \underline{c} \cdot \underline{\vee} = \underline{1} \cdot \left( \frac{1}{0} \right) \left[ \begin{array}{ccc} 3 & 0 & 0 \\ 0 & 4 & 0 \\ 0 & 0 & 0.36 \end{array} \right] \left( \frac{1}{0} \right)$$

$$=D \left[ \sqrt{\lambda \left( \lambda \right)} = \sqrt{\frac{13}{13}} \right]$$

$$C_1 \leq S_1 = \frac{d_2(1)}{d_2(2)} = \frac{d_3}{d_3} = \frac{d_3}{d_3} = 0$$

$$\frac{|d_3(1)|}{|d_3(2)|} = \frac{d_3}{|d_3(2)|} = \frac{d_3}{|d_3(2)|} = 0$$

Lo no orgle variation.