Locture 30 Problems Problem 1

(a) Yes

(b): $T(x)=2\begin{bmatrix}x\\y\end{bmatrix}$ and we can review by noting that $\begin{bmatrix}x\\y\end{bmatrix}=-\begin{bmatrix}x^2+4^2 & \text{not}\\y\end{bmatrix}=\sqrt{(x^2+4^2)}=2-[x^2+4^2]$ T(x,y)= $\sqrt{(x^2+4^2)}=2-[x^2+4^2]$, thus it Janubles length

(d) Just multiply x and y b y 2; $T = \begin{bmatrix} 2 & 0 \\ 0 & 2 \end{bmatrix}.$

Problem 2

Simple: T(X)=(x2)

--- Y
