d) Moestre que vectoriulmente, el descenso del gradiente queda definida por $\overline{\theta}$ - $\overline{\theta}$ TELICATION QUE 14 POPAJA DO GRADIENTE ES

XI = YO - 2 . Tx + (YO) -) XXX XXX XXX XXX Mallar so Gravital $\nabla_{\theta} \chi^{2}(\hat{\theta}) = \frac{1}{2} \frac{\nabla_{\theta} (x_{1}, \hat{\theta}_{0})}{2} \frac{\partial \Pi(x_{1}, \hat{\theta}_{0})}{\partial \theta_{0}} = \frac{\partial \Pi(x_{1}, \hat{\theta}_{1})}{\partial \theta_{0}} \frac{\partial$ $2\sum_{i=1}^{N}\left(y_{i}-M\left(x_{i},\overline{\varphi_{i}}\right)\right) M\left(x_{i},\overline{\varphi_{i}}\right)$ Towno $\sum_{i=1}^{N} (G_i - M(x_i, \bar{\theta})) \sqrt{2} M(x_i, \bar{\theta})$ Dunna ∂Λ(xi,θ'), ∂Π(xi,θ') ∂θ' ∂θ' ∂θ' ∂θ2 24 1(x1,6) descenso del gradiento da CARUSTIANU GUN QUILLEDO $(-2\overline{2}(y_i-M(x_i,\overline{\theta}_i))\overline{7}\theta \Lambda(x_i,\overline{\theta}_i)$