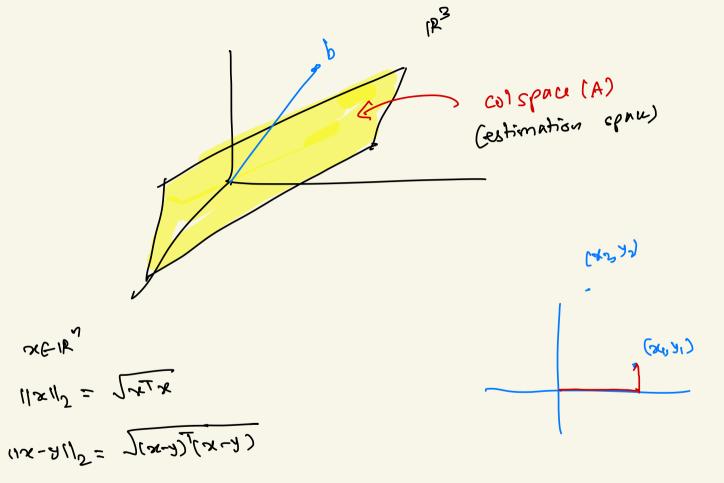
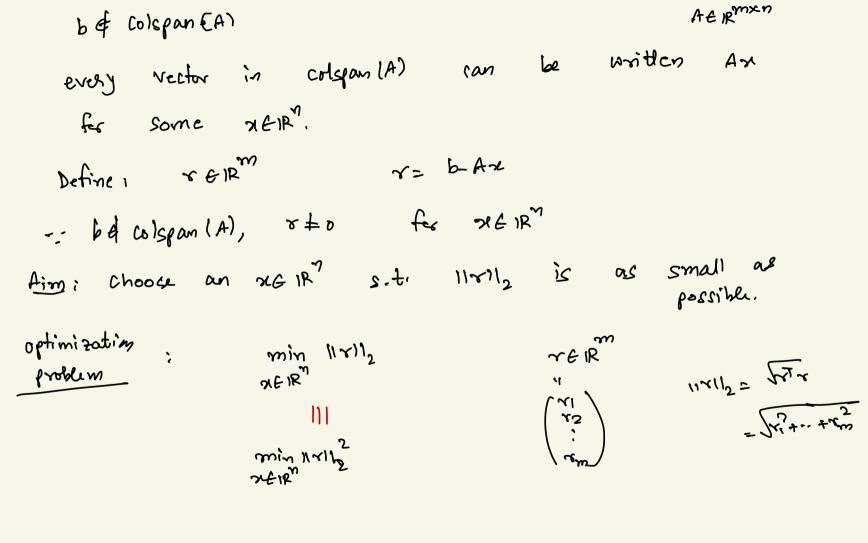


AGR & given. b∈rm ← given.  $x_1 = \begin{pmatrix} x_1 \\ x_2 \end{pmatrix}$ Find AGIR S.t. An = b. A= (a) ab ... an x, a, + 222+ ... + xn an  $Ax = \begin{bmatrix} 1 & 1 & 1 \\ \alpha_1 & \alpha_2 & - & \alpha_n \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ \vdots \\ x_n \end{bmatrix} =$ Colspace (A) = span of columns of A JE18n Jo = { yract -- + Jnan = Ay | subspace of 1R"





 $\mathcal{A} = \{ (x_i, x_i) \}_{i=1}^m$