MATH 3060 HW4 Due date: Oct 19, 2022 (at 11:00 am)

I. Recall that 
$$l_2 = \{x = (x_1, x_2, \dots) : \sum_{i=1}^{\infty} |x_i|^2 < \omega\}$$
 xi  $\in \mathbb{R}$    
has a metric  $d_2(x, y) = \left(\sum_{i=1}^{\infty} (x_i - y_i)^2\right)^{1/2}$ .

(End)