Kandidatnr: 10009. Problem 1

(i)
$$M \in \mathbb{R}^{n \times n}$$
 $I-M$ non-singular

 $||(I-M)^{-1}-I||=\max \frac{||((I-M)^{-1}-I)\times ||}{||\times ||}$
 $=\max ||(I-M)^{-1}\times -\times ||$
 $=\max ||(I-M)^{-1}\times -\times ||$
 $=\max ||(I-M)^{-1}\times -\times ||$

(ii)
$$(1+||M||)^{-1} \le ||(I-M)^{-1}||$$

Let $||X_{1}|| = ||s_{1}t_{1}|| = ||A|| = ||A|| = ||A|||$

Then $||X_{2}|| = ||A|| =$