2)
$$\|X\|_{2} \le \sqrt{m} \|X\| \infty$$

o $\|X\|_{p} = \left(\sum_{i=1}^{n} |X_{i}|^{p} \right) L|_{p}$
 $\|X\|_{\infty} = \lim_{i \to \infty} \|X_{i}|^{p} = \lim_{i \to \infty} \left(\frac{|X_{i}|^{p}}{|X_{i}|^{2}} \right) L|_{p} = \lim_{i \to \infty} \left(\frac{|X_{i}|^{p}}{|X_{i}|^{p}} \right) L|_{p} = \lim_{i \to \infty} \left(\frac{|X_{i}|^$

```
4) Mu Alle = 11 Aulle = 11 Alle

O Myor y, x - possessonous becops

Torga:

Lux, uy > = x + u + uy = x + y -> 11 ux 11 = 11 x 11 = (1)

A = (a1, a2, ..., an)

11 u Alle = 11 ua, uaz, ... uan 11 = 2 (ua; ua;) =

= 11 beconsoys (1) || = 2 11 ai 11 = 11 Alle

A rowne:

11 Aulie = 11 (Au) Tile = 11 uTATILE = 11 Alle =

11 u Alle

= 11 ualle

= 11 ualle

= 11 ualle

= 11 ualle
```