

Quiz 2 MTH 452/552

in $\mathbb{Z}_3 \times \mathbb{Z}_3$:

$$(1,1) + (1,1) = (2,2)$$

$$(2,2) + (1,1) = (3 \bmod 3, 3 \bmod 3) = (0,0)$$

\Downarrow

$$\text{chr}(\mathbb{Z}_3 \times \mathbb{Z}_3) = 3$$