













Integral domains A commutative ring with identify R is said to be an integral domain of  $fn \quad all \quad a, b \in \mathbb{R}, a \cdot b = 0 \quad implies$   $either \quad a = 0 \quad a, \quad b = 0$ Examples - Z - any field - F[2], where F is a field. - Consider 7/42 and consider [2] E 7/2 Now [2] # [0], but [2], [2] = [0]. Thus Z/17 is not an integral domain M.W. Prove that any fimite integral domain is a field

