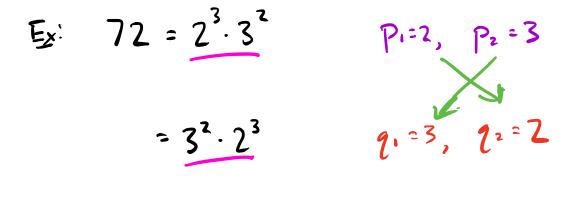


2/47, 3/47, $5/47 \implies 47$ is prime.

Next HW: 2.7-2.9

Ex:
$$72 = 12 \cdot 6$$

 $= (Y \cdot 3)(2 \cdot 3)$
 $= (2 \cdot 2 \cdot 3)(2 \cdot 3) = 2^3 \cdot 3^2$
Existence (2.7) - use 2.1 and story induction
Uniqueness (2.9) - Let
 $\tilde{E} p_{1, 1} \dots p^{m} \tilde{I}$
 $\tilde{E} q_{1, 1} \dots q^{m} \tilde{I}$
 $p_{1} \neq q_{2}$
 $p_{1} \neq q_{3}$
 $p_{1} = q_{1}^{1} \cdots q_{n}^{1}$
 $p_{1} = q_{3}^{1} \cdots q_{3}^{1}$
 $p_{1} = q_{3}$, then $r_{1} = t_{3}$



I den: Lemme 2.8 + induction

No class Friday