

Math-42 Sections 01, 02, 05

Homework #11

Due: Week of 4/27

Reading

Section 5.1

Problems

Prove (by induction): For all $n \in \mathbb{N}$:

$$21 \mid (4^{n+1} + 5^{2n-1})$$

Make sure that your proof is well structured as specified in class.

(Hint: Example 9)