

Spring 2019, Math 596: Preliminary Problem Set 11
Due: Thursday, April 18th, 2019
Rational Generating Functions

Preliminary problems. These problems should be completed before discussion on Thursday.

(P1) Consider the formal power series

$$A(z) = \sum_{n=0}^{\infty} a_n z^n = \frac{z^5 + z^4 + z^3 + z^2 + z + 1}{1 - z^4}.$$

Write down a (piecewise) formula for a_n in terms of n .