1 Assignment on «Patterns & Replacements»

Problem 1.1. Create a function with the same functionality as Coefficient using replacements.

$$myCoefficient[expr_, form_] := \dots$$

Problem 1.2. Construct a ComplexityFunction that prefers $\sin^n(x)$ and $\cos^n(x)$ instead of $\sin(nx)$ and $\cos(nx)$. Simplify $\cos(4x)$ using it.

 ${\tt Simplify}\left[{\tt Cos}[4z], {\tt ComplexityFunction} \rightarrow f[\#]\&)\right]$