1. Implementation of the algorithm to find U+
   1. The implementation should work for function coefficients.
   2. The theorem that checks whether an adjoint is valid only works for homogeneous boundary conditions.
   3. Need more unit tests
      1. For n = 1, .., 10: Randomly choose p0, p1, p2 and the entries of M, N, throw out M, N that gives invalid U
         1. Constant p\_k: randomly choose numbers
         2. Function p\_k: randomly choose coefficients of polynomials
   4. Shift implementation from SymPy to full Julia functions
      1. Keep symbolic expression as attributes, .sym or get\_sym()
2. Proof for Bjk formula
   1. Change \sum\_{m=1}^n\sum\_{k=1}^m to \sum\_{k=1}^n\sum\_{m=k}^n
3. Fix weekly meeting time
   1. Monday 9am
4. Capstone report 1
   1. Content
   2. Format
5. Next steps
   1. Construct the Transform pairs in the Smith-Fokas paper (where p0 – 1, pk = 0 for all k \neq 0)
   2. Take a look at the contours