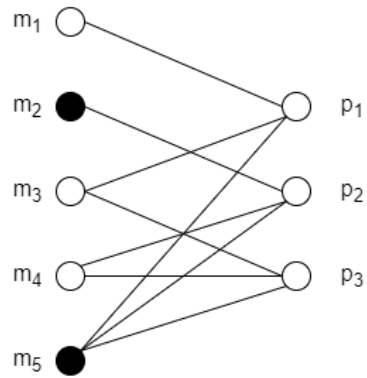


Assignment 3

Due: 11:59 PM, 10/02/2022

1. Consider an LDPC code constructed with the bipartite graph below. Show how the two flipped bits can be corrected.



2. Consider a Tornado code constructed with the same bipartite graph. Show how the message with two erased symbols can be decoded.
3. Consider an $(n, k, n-k+1)_q$ RS code where $q=2^b$. How many bits can there be at most in a decodable burst error?