Northern Michigan University (Marquette Co, MI)

CS426-01-26F: Operating Systems (Andrew A. Poe) Name: _____
Quiz 7 Friday 30 October 2026 3:00 P.M. EDT

Time: 15 minutes.

A machine with 6 processors initiates an all-to-all communication. What processes, in order, does processor 4 exchange messages with, under the algorithm we discussed in class?

6 is even, use a modular system based on 5.

5-4 = 1
1+2 = 3
3+2 = 0
0+2=2
2+2=4, but 4 can't swap with 4, so 5

1,3,0,2,5