Day 16

Cayley's Theorem

1. "(1 2 3 4) cannot be written as a product of 3-cycles."

This statement is...

- (A) True.
- (B) False.

2. What is the order (1 2 4 6 7 5)(3 8) in S_8 ?

- 3. Find a subgroup of a symmetric group that is isomorphic to each of the following:
- (1) Z_4
- (2) U(8)
- (3) *U*(9)