Suppose A, B, and C are regular. Prove

((A) o B) U C\* is regular.

- A is regular (closure under -)

- C\* is regular (closure under \*)

- A o B is regular (closure under o)

- (A o B) U C\* (closure under U)

Prove (00) U (11) is regular.

: (00) + and (11) are both regular languages.

: (60) U 11 is a regular language (closure under union)