

ECE 1551 Chapter 2:

DeMorgan's Theorem 1

DeMorgan's Theorem

$$\overline{XY} = \overline{X} + \overline{Y}$$

$$\overline{X + Y} = \overline{X} \overline{Y}$$

- Simplify $(AB)'(A' + B)$

1. $(A' + B')(A' + B)$

2. $A' + A'B + B'A'$

3. $A'(\cancel{B + B'})$

4. A'