

DEMORGANS THEOREMS

$$\overline{A_1 + A_2 + \dots + A_n} = \overline{A_1} \cdot \overline{A_2} \cdot \overline{A_3} \cdot \dots \cdot \overline{A_n}$$

note: break the line, change the sign.

Ex:

$$Y = \overline{X_1 \cdot \overline{X_2} + X_3 \cdot X_4}$$

$$Y = \overline{X_1 \cdot \overline{X_2}} \cdot \overline{X_3 \cdot X_4}$$

