Section 1.10: More LOL

Tuesday, October 07, 2014
9:12 AM

De Morgan's:

$$\overline{AB} = \overline{A} + \overline{B}$$

$$\overline{A+B} = \overline{A} \cdot \overline{B}$$

examples: use De Morgan's to rewrite

① $\overline{B+C}$ $= \overline{B}\,\overline{C}$

② $\overline{\overline{B}+C}$ $= B\overline{C}$ $= \overline{\overline{B}}\,\overline{C}$

③ $\overline{\overline{B}+\overline{C}}$ $= BC$

④ $\overline{\smiley + \frownie}$ $= \overline{\smiley}\,\overline{\frownie}$

⑤ $\overline{A\overline{C}}$ $= \overline{A} + C$

⑥ $\overline{A}C$ $= \overline{A+\overline{C}}$

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