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

Applying the previous rule to expand **A** term

A + $\overline{A}B$

A + $\overline{A}B$

Factoring **B** out of 2^{nd} and 3^{rd} terms

A + $\overline{A}B$

Applying identity **A** + $\overline{A}B$

+ $\overline{A}B$

Applying identity **B**

Applying identity **B**