2.5.2

- 1. $\overline{A} \cap (A \cup B) = \overline{A} \cap B$ Given 2. $(\overline{A} \cap A) \cup (\overline{A} \cap B)$ Distributive law 3. $\emptyset \cup (\overline{A} \cap B)$ Complement law 4. $\overline{A} \cap B$ Identity law