Exam 2 - Question 29

1. $(A - B) \cup \overline{A} = \overline{A \cap B}$ / Given
2. $(A \cap \overline{B}) \cup \overline{A}$ / Set Subtraction law
3. $(\overline{A} \cup A) \cap (\overline{A} \cup \overline{B})$ / Distribution Law
4. $U \cap (\overline{A} \cup \overline{B})$ / Complement Law
4. $\overline{A} \cup \overline{B}$ / Identity Law
5. $\overline{A \cup B}$ / De Morgan's Law