Dawson College: Principles of Mathematics and Logic: 360-124-DW-S02: Winter 201
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Student ID:	

Quiz: Tautologies, Contradictions and Contingent Statements

No books, calculators, notes or cell phones are allowed. You must show all your work, the correct answer is worth 1 mark the remaining marks are given for the work. If you need more space for your answer use the back of the page.

Question 1. (3 marks) WITHOUT USING A TRUTH TABLE: Show that the following statement is not a tautology.

$$(\neg A \lor B) \to \neg (A \land B)$$

Question 2. (3 marks) WITHOUT USING A TRUTH TABLE: Show that the following statement is not a contradiction.

$$(\neg A \land B) \rightarrow \neg (A \lor B)$$