

Name:

Date:

Class:

Gate Handout #2

Three new truth tables have been provided for the XOR, NAND, and NOR gates. Use the names and your knowledge of the other gates to determine the correct outputs. Defend your answer using 1-4 complete sentences on the lines provided.

Note: All of these tables are set up from the perspective of the green trucks. Hints: Ask yourself, "Is the truck going in (the input) green?" "Is the truck coming out (the output) green?"

Truth Table #5		
Input A	Input B	Output
		
Green	Green	
Green	Red	
Red	Green	
Red	Red	

Name:

Date:

Class:

Truth Table #6

Input A	Input B	Output A NOR B	
Green	Green		
Green	Red		
Red	Green		
Red	Red		

Truth Table #7

Input A	Input B	Output A XOR B	
Green	Green		<p>Only produces a green output when the two inputs are different.</p>
Green	Red		
Red	Green		
Red	Red		