Physics 3410 Quiz 1

Please v	vrite the letter of the correct answer in the box provided. Name:
	 1. The figure shows a set of random walkers like in class. When this system reaches diffusive equilibrium, the number of particles on each side will remain constant. A) true B) false
	2. A metal wire connected to a battery becomes warmer due toA) heat B) work
	3. Which of the following types of heat flow <i>cannot</i> occur in solids? A) conduction B) convection C) radiation D) A & C
	4. Our sign convention is that Q is positive when heat flows the system. A) into B) out of C) around
	5. If $\Delta T = 1$ C°, then $\Delta T =$ A) -273K B) -272K C) 1K D) 300K (Careful!)
	6. How many degrees of freedom does a hydrogen molecule H ₂ have, if none are "frozen out"? A) 2 B) 3 C) 5 D) 6 E) 7 F) 8

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