

# Preclass Assignment

## CHEM 1100-General Chemistry II

Name:

#6

Section: 31, TR

Due Date: Thursday 2/7/2019

1. Determine the reaction quotient for each of the following conditions:



[H <sub>2</sub> ] (M)	[I <sub>2</sub> ] (M)	[HI] (M)	Q <sub>c</sub>	
0.10	0.20	0.40		
0.011	0.013	0.18		
0.15	0.016	0.37		

2. At 900 K the equilibrium constant,  $K_p$ , for the reduction of iron(II) oxide to iron metal is 0.287. Calculate the equilibrium pressures of CO and CO<sub>2</sub> if the initial pressures are 1.500 atm for CO and 0.500 atm for CO<sub>2</sub>.

