CHEM 36 General Chemistry Quiz #9

April 26, 2002

Name:	
Fo	r the reaction: $H_2 + Br_2 \rightarrow 2 HBr$
	has been determined that the reaction is <i>first order</i> with respect to H_2 and <i>cond order</i> with respect to Br_2 .
1.	Write the rate law for this reaction.
2.	How would doubling the initial concentration of Br_2 affect the initial rate of the reaction? (Be quantitative!)
3.	How would the rate change (be quantitative!) if the temperature at which the reaction was performed was increased by 10 °C? Note: no calculation is necessary!