

7. At a high temperature, 0.50 mol of HBr was placed in a 1.0 L container and allowed to decompose according to the reaction:



At equilibrium the $[\text{Br}_2]$ was measured to be 0.13 M. What is K_{eq} for this reaction at this temperature?



[I]	0.50	0	0
[C]	-0.26	+0.13	+0.13
[E]	0.24	0.13	0.13

$$K_{\text{eq}} = \frac{[\text{H}_2][\text{Br}_2]}{[\text{HBr}]^2} = \frac{(0.13)^2}{(0.24)^2} = 0.29$$

Answer $K_{\text{eq}} = 0.29$

8. When 1.0 mol of $\text{NH}_3\text{(g)}$ and 0.40 mol of $\text{N}_2\text{(g)}$ are placed in a 5.0 L vessel and allowed to reach equilibrium at a certain temperature, it is found that 0.78 mol of NH_3 is present. The reaction is:



$$\text{initial } [\text{NH}_3] = \frac{1.0 \text{ mol}}{5.0 \text{ L}} = 0.20 \text{ M} \quad \text{initial } [\text{N}_2] = \frac{0.40 \text{ mol}}{5.0 \text{ L}} = 0.080 \text{ M}$$

$$\text{equil. } [\text{NH}_3] = \frac{0.78 \text{ mol}}{5.0 \text{ L}} = 0.156 \text{ M}$$



[I]	0.20	0	0.080
[C]	-0.044	+0.066	+0.012
[E]	0.156	0.066	0.102

a) Calculate the equilibrium concentrations of all three species.

$$[\text{NH}_3] = 0.156 \text{ M} \quad [\text{H}_2] = 0.066 \text{ M} \quad [\text{N}_2] = 0.102 \text{ M}$$

b) Calculate the value of the equilibrium constant at this temperature.

(use unrounded concs, then round to 3 sig figs)

$$K_{\text{eq}} = \frac{[\text{H}_2]^3 [\text{N}_2]}{[\text{NH}_3]^2} = \frac{(0.066)^3 (0.102)}{(0.156)^2} = 0.0012$$

Answer 1.2×10^{-3}

c) How many moles of H_2 are present at equilibrium?

$$0.066 \text{ M} \times 5.0 \text{ L} = 0.33 \text{ mol}$$

Answer 0.33 mol

d) How many moles of N_2 are present at equilibrium?

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Table of Contents Answers Cmay 22012 Chemistry

1. Understanding the eBook Answers Cmay 22012 Chemistry
 - The Rise of Digital Reading Answers Cmay 22012 Chemistry
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers Cmay 22012 Chemistry
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers Cmay 22012 Chemistry
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers Cmay 22012 Chemistry
 - Personalized Recommendations
 - Answers Cmay 22012 Chemistry User Reviews and Ratings

- Answers Cmay 22012 Chemistry and Bestseller Lists
- 5. Accessing Answers Cmay 22012 Chemistry Free and Paid eBooks
 - Answers Cmay 22012 Chemistry Public Domain eBooks
 - Answers Cmay 22012 Chemistry eBook Subscription Services
 - Answers Cmay 22012 Chemistry Budget-Friendly Options
- 6. Navigating Answers Cmay 22012 Chemistry eBook Formats
 - ePUB, PDF, MOBI, and More
 - Answers Cmay 22012 Chemistry Compatibility with Devices
 - Answers Cmay 22012 Chemistry Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers Cmay 22012 Chemistry
 - Highlighting and Note-Taking Answers Cmay 22012 Chemistry
 - Interactive Elements Answers Cmay 22012 Chemistry
- 8. Staying Engaged with Answers Cmay 22012 Chemistry
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers Cmay 22012 Chemistry
- 9. Balancing eBooks and Physical Books Answers Cmay 22012 Chemistry
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers Cmay 22012 Chemistry
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers Cmay 22012 Chemistry
 - Setting Reading Goals Answers Cmay 22012 Chemistry
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers Cmay 22012 Chemistry
 - Fact-Checking eBook Content of Answers Cmay 22012 Chemistry
 - Distinguishing Credible Sources

- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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