Practice Quiz #35
Answers

① 9, 99

② $K = [CO_2]$

③ $K = \dfrac{[H_2]^3[N_2]}{[NH_3]^2}$

④ $K = \dfrac{(2.1\times10^{-3})^3(4.9\times10^{-4})}{(0.34)^2}$

$= 3.9 \times10^{-11}$

⑤ $Q = \dfrac{[B]}{[A]^2} = \dfrac{30}{3^2} = \dfrac{30}{9} = 3.33$

No, not at equilibrium. The current ratio of products to reactants, 3.33, is not equal to the equilibrium ratio, which is 10.0.