CHM 135 Previous Test Questions for Test 2 Practice

Multiple choice questions

1. Molecular hydrogen can be made from methane gas by the reaction below. How is the rate of disappearance of CH_4 (g) related to the rate of appearance of H_2 (g)?

$$CH_4\,(g) + H_2O\,(l) \longrightarrow CO\,(g) + 3H_2\,(g)$$

a) $-\frac{\Delta[CH_4]}{\Delta t} = +\frac{3\,\Delta[H_2]}{\Delta t}$

b) $-\frac{\Delta[CH_4]}{\Delta t} = -\frac{3\,\Delta[H_2]}{\Delta t}$

c) $-\frac{\Delta[CH_4]}{\Delta t} = +\frac{1\,\Delta[H_2]}{3\,\Delta t}$

d) $-\frac{\Delta[CH_4]}{\Delta t} = +\frac{\Delta[H_2]}{\Delta t}$