

Lecture 30 Problems: Problem 1

(a) rate $\propto [\text{Cl}_2]^{1/2} [\text{CHCl}_3]$

(b) $5 \cdot \sqrt{4} = 10$

Problem 2

(a): $r = k [A]^2 [B] [C]^{1/2}$

(b): $2 + 1 + 1/2 = 3.5$

(c): $4.5 \cdot 10^6 \text{ mol}^{-2.5} \text{ L}^{2.5} \text{ s}^{-1}$