Name: _____

Exam 1 Equations (Chapters 10-11)

$$q = mC\Delta T$$

$$\ln P_{vap} = \frac{-\Delta H_{vap}}{R}\left(\frac{1}{T}\right) + \ln \alpha$$

$$l = \sqrt{8}r$$

$$l = 2r$$

$$P_A = \chi_A P_A^\star$$

$$\Delta T_b = iK_b m$$

$$\Delta T_f = iK_f m$$

$$q = n\Delta H_{fus,\ sub,\ or\ vap}$$

$$\ln \frac{P_2}{P_1} = \frac{-\Delta H_{vap}}{R}\left(\frac{1}{T_2} - \frac{1}{T_1}\right)$$

$$l = \frac{4}{\sqrt{3}}r$$

$$C_{gas} = k_{H,gas} P_{gas}$$

$$P_{total} = \sum_{i=gas} \chi_i P_i^\star$$

$$\Pi = \frac{inRT}{V} = iC_{molar}RT$$