

Name: _____

Exam 4 Equations (Chapters 8-10)

$$q = mC\Delta T$$

$$\frac{P_1V_1}{T_1} = \frac{P_2V_2}{T_2}$$

$$PV = nRT$$

$$q = n\Delta H_{fus,vap,etc.}$$

$$\Delta T_F = i\kappa_F C_{molal}$$

$$\pi = \frac{nRT}{V} = [molar]RT$$

$$\Delta T_B = i\kappa_B C_{molal}$$

$$K_A = \frac{[H_3O^+][A^-]}{[HA]}$$

$$C_1V_1 = C_2V_2$$

$$[H_3O^+] = 10^{-pH}$$

$$K_w = [OH^-][H_3O^+] = 1.00 \times 10^{-14}$$

$$pH = pK_A + \log \frac{B}{A}$$

$$pH = -\log [H_3O^+]$$

$$C_A V_A = C_B V_B$$