

Useful information(?)

$K_w = 1.0 \times 10^{-14}$	$K_w = K_a K_b$	$p(x) = -\log(x)$
$pH + pOH = 14$	$pH = pK_a + \log\left(\frac{[A^-]}{[HA]}$	
$x = \frac{-b \pm (b^2 - 4ac)^{0.5}}{2a}$	$R = .0821 \text{ [L}\cdot\text{atm/mol}\cdot\text{K]}$	$R = 8.314 \text{ J/mol}\cdot\text{K}$
$k = A \exp(-E_a/RT)$	$\ln(k_1/k_2) = E_a/R(1/T_2 - 1/T_1)$	
0th order: $[A]_t - [A]_0 = -kt$	1st order: $\ln([A]_t/[A]_0) = -kt$	2nd order: $1/[A]_t - 1/[A]_0 = -kt$