	Name: Blk:Date:
	Blk:Date:
	worksheet on Ka, Kb, PH and pOH
١	. The methylammonium ion (CH ₃ NH ₃ ⁺) acts as a weak acid in aqueous solution.
	a) Write an equation showing the hydrolysis of the methylammonium ion to form H ₃ O ⁺ .
	b) It is found that a 0.25 M solution of the methylammonium ion (CH ₃ NH ₃ ⁺) has a pH of 5.62. Calculate the value of K _a for CH ₃ NH ₃ ⁺ . Show your work.
2	A student prepares a solution of CH ₃ COOH that has a pH of 5.165. Calculate the initial concentration of CH ₃ COOH. Show your work.
3	The oxalate ion $(C_2O_4^{\ 2-})$ acts as a weak base in aqueous solution.
	a) Write an equation showing the hydrolysis of C ₂ O ₄ ²⁻ to form OH ⁻ .

b) Calculate the pH of a 0.15 M solution of sodium oxalate $(Na_2C_2O_4)$. Show your work.