

Name: _____

Quiz 3

Determine the pKa (with error) using the following data.

$$A_{410nm} = A_{deprotonated} - \left(\frac{A_{deprotonated} - A_{protonated}}{\left(10^{(pH-pKa)}\right) + 1} \right)$$

pH	Abs 410 nm
5	0.021
5.5	0.034
6	0.032
6.5	0.043
7	0.072
7.5	0.134
8	0.197
8.5	0.236
9	0.252
9.5	0.265