		& Bases: Titr	ation Curves	CHEIVI II
CAPILANO UNIVERSITY	LAST NAME:		SEC#_	LOCKER#
Department of Chemistry	FIRST NAME:		DATE: _	
ame of Partner:				
leasureNet <sup>®</sup> workstation #: _				
RAW DATA				
Record all numbers on this page in the proper format in blue or black ink only and using the correct number of significant figures or decimal places.		Part 1 weak acid	Part 2 phosphoric acid	Part 3
Molarity of NaOH titrant	:			М
Name of Acid Sample Analyzed:			H₃PO₄ (aq).	
Volume of Acid Sample Pipetted:		mL	mL	mL
ecord below all NaOH burette leasureNet® error occurs.	readings. These	values are <u>not</u> used for ar	ny calculations, and are c	only taken as back-up if
Initial Reading (the START value):		mL	mL.	mL.
Final Reading (the STOP value):		mL	mL	mL
RESULTS				
Jse the plotted Titration (	Curves to gra	aphically determine th	e following features	:
1 <sup>st</sup> Equivalence Point Volume:		mL	mL	mL
2 <sup>nd</sup> Equivalence Point Volume:		NA	mL	NA
pH @ Half-Equivalence Point: this is $pK_a$ for the weak acid			NA	NA

MDL May 2017 AB2

М

М

М

Molarity of Acid Sample Analyzed:

\_mol/L

## SHOW ALL CALCULATIONS BELOW.

Either pen or pencil is acceptable.	When finished, please transfer the calculated molarities onto	to
the last table on the other side of the	his report sheet.	

Part 1 - Titration Curve for a Weak Acid Calculate the molarity of the acid using the equivalence point:	
Part 2 - Titration Curve for Phosphoric Acid Calculate the molarity of the acid using the <u>1</u> <sup>st</sup> equivalence point:	mol/L
Part 3 - Titration Curve for a Juice Calculate the acid molarity of the juice using the equivalence point:	mol/L

STAPLE YOUR GRAPHS TO THE BACK OF THIS REPORT SHEET IN THE UPPER-LEFT CORNER AND IN THE ORDER OF PARTS 1 – 3.