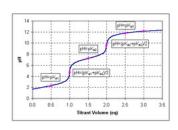


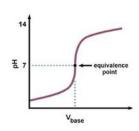
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What is the name of the point of the curve where pH = pKa?

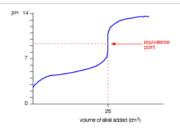
Halfway point



2. At what point will [H] = Equivalence point [OH]?



If a weak acid is titrat-3. ed with a strong base



4. of a Buffer?

What is the definition A solution which contains a weak acid (or weak base) and its conjugate base (or acid)

5. determine the Ka of the acid

Given a titration curve, anti-log of the negative value of the solution's pH at the halfway point

- Why does the titration the acid's conjugate base makes the solution basic 6. of a weak acid with a strong base have an equivalence point that is greater than 7?
- What is the definipoint?

The spot on the titration curve where moles of acid tion of the equivalence = the mole of base . The pH at this point is not necessarily 7

Which indicators 8. would be the most useful when titrating Pink phenolphthalein or thymol blue. Both change colors at pH's between 7.6 and 9. These are the values between which the equivalence

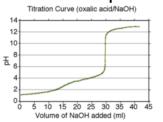


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a weak acid with a strong base?

9. Given an unmarked titration curve, how would you identify the equivalence point?

Isolate the section of the curve where the slope is steepest. Look for the center point



10. arrhenius acid	they are the acids that dissociate in water to produce H+ ions
11. arrhenius base	they are the bases that dissociate in water to produce OH- ions
12. bronsted-lowery acid	acids that are proton donors they are willing to give up H+ t
13. bronsted-lowry base	bases that are proton(H+) acceptors
14. conjugate base	what the acid becomes once the proton(H+) has been donated
15. conjugate acid	what the base becomes after it accepts the proton(H+)
16. strong acids	HNO3 HI HBr HCI H2SO4 HCIO4

17. **what defines a strong** they completely(100%) dissociate in water **acid**

18.

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what	defines	a	weak
acid			

acids that only partially dissociate has a relatively strong conjugate base

19. strong bases

soluble compounds containing the hydroxide ions NaOH

KOH LiOH RbOH Mg(OH)2 Ba(OH)2 Ca(OH)2 Sr(OH)2

20. How # of oxygens on oxyacids affects acid strength

acid strength increases as more oxygens are added to the central Y

increasing the number of electronegative oxygen atoms increases the electrons attraction toward the Y. This will reduce the forces of attraction in the O-H bond making ti easier to remove a H+

21. **Kw**

1.0 X 10^-14 at 25 degrees Celsius

22. how to find pH when given [H3O+]

pH=-log[H3O+]

23. how to find pOH when pOH=-log[OH-] given [OH-]

24. how to find the pH when given the pOH

14-pOH

25. how to find pOH when 14-pH given the pH

26. neutral

[H+] = [OH-]

27. **larger Ka value means** stronger acid because the acid is going more into what completion

28.

H+ + OH- ---> H2O



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neutralization SA + SB reaction net ionic equation

29. hydrolysis

states that salts (ionic compounds) can make a solution acidic, basic, or even have no effect on the pH