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| **Strong Base/Strong Acid Titration** |
| pH = 7 at the equivalence point |
| midpoint is not important |
| long steep slope region |
| equivalence point can be used to calculate the concentration of the acid being titrated |
| The acid is neutralized by the base during the titration |

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| **Strong Base/Weak Acid Titration** |
| pH > 7 at equivalence point |
| midpoint gives Ka value |
| shorter steep slope region |
| equivalence point can be used to calculate the concentration of the acid being titrated |
| The acid is neutralized by the base during the titration |
| as the titration occurs, conjugate base is created |

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| **Strong Acid/Weak Base Titration** |
| pH < 7 at equivalence point |
| midpoint gives Ka value |
| shorter steep slope region |
| equivalence point can be used to calculate the concentration of the acid being titrated |
| The base is neutralized by the acid during the titration |
| as the titration occurs, conjugate acid is created |