

Quiz 4.6 – Titration

Name: _____

Question 1 (1 points)

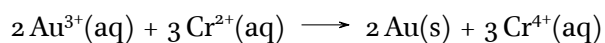
25.00 *ml* of HCl with unknown concentration were titrated to the end-point with 37.21 *ml* of 0.150 *M* NaOH. Find the initial [HCl]

Question 2 (2 points)

25.00 *ml* of Ba(OH)₂ with unknown concentration were titrated to the end-point with 42.85 *ml* of 0.350 *M* HNO₃. Find the initial [Ba(OH)₂]

Question 3 (2 points)

Color-changing indicators are available for redox reactions as well as for acid-base reactions. Consider the following reaction:



50.00 *ml* of Au(NO₃)₃ with unknown concentration were titrated to the end-point with 28.63 *ml* of 0.125 *M* Cr(C₂H₃O₂)₂. Find the initial [Au(NO₃)₃]

Sonnet 18: Shall I compare thee to a summer's day?

By William Shakespeare

Shall I compare thee to a summer's day?
Thou art more lovely and more temperate:
Rough winds do shake the darling buds of May,
And summer's lease hath all too short a date;
Sometime too hot the eye of heaven shines,
And often is his gold complexion dimm'd;
And every fair from fair sometime declines,
By chance or nature's changing course untrimm'd;
But thy eternal summer shall not fade,
Nor lose possession of that fair thou ow'st;
Nor shall death brag thou wander'st in his shade,
When in eternal lines to time thou grow'st:
 So long as men can breathe or eyes can see,
 So long lives this, and this gives life to thee.