Quiz 19.1 – Balancing Redox Reactions

Question 1

Balance the following reactions in acidic solution:

$$\circ \ H_2O_2(aq) + ClO_2(aq) \longrightarrow ClO_2^-(aq) + O_2(g)$$

$$\circ \ \ Fe^{^{2+}}(aq) + MnO_{_4}^{^-}(aq) \ \longrightarrow \ Fe^{3+}(aq) + Mn^{^{2+}}(aq)$$

Question 2

Balance the same reactions in basic solution:

Question 3

25.00~ml of Fe(NO $_3)_2$ solution are titrated with 13.65~ml of acidic 0.103~M KMnO $_4$ solution. Find the original $\left[\mathrm{Fe(NO}_3)_2\right]$

Because I Could Not Stop for Death (479)

By Emily Dickinson

Because I could not stop for Death – He kindly stopped for me – The Carriage held but just Ourselves – And Immortality.

We slowly drove – He knew no haste And I had put away My labor and my leisure too, For His Civility –

We passed the School, where Children strove At Recess – in the Ring – We passed the Fields of Gazing Grain – We passed the Setting Sun –

Or rather – He passed Us – The Dews drew quivering and Chill – For only Gossamer, my Gown – My Tippet – only Tulle –

We paused before a House that seemed A Swelling of the Ground – The Roof was scarcely visible – The Cornice – in the Ground –

Since then – 'tis Centuries – and yet Feels shorter than the Day I first surmised the Horses' Heads Were toward Eternity –