Name:_____

SCH 4U Titration Quiz

1. Determine the volume of 0.05 M sodium hydroxide (NaOH) that is required to neutralize 45 mL of 2.0 M sulphuric acid $(\rm H_2SO_4)$.

2. A mixture of phosphoric acid (H_3PO_4) and sulphuric acid (H_2SO_4) is neutralized be sodium carbonate (Na_2CO_3) and barium hydroxide $(Ba(OH)_2)$. If 5 L of 3 M phosphoric acid and 2 L of 18 M sulphuric acid has been treated with 3 kg of barium hydroxide, what mass in kilograms of sodium carbonate is required to finish the job?

3. A mixture of $KHSO_4$ and NaCl is 45.8% potassium bisulphate by mass. What volume of 0.1 M HCl would you expect to add if 2.000 g of the mixture has already been treated with 50 mL of 0.5 M NaOH?