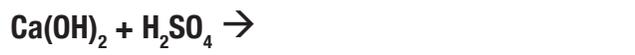


**Complete the following:**

1. The products of reactions between an acid and a base are always a \_\_\_\_\_ and \_\_\_\_\_ .

2. Complete these neutralization reactions:



3. In a neutral solution \_\_\_\_\_ of hydroxide ions equals \_\_\_\_\_ of hydrogen ions.

**Work each of the following problems. Show all work and circle your final answer.**

4. If 12.5 mL of 0.400 M HCl are required to neutralize 25.0 mL of NaOH solution, what is the molarity of the NaOH solution?

Neutralization Reaction:

5. How many mL of 0.250 M  $\text{H}_2\text{SO}_4$  solution are needed to neutralize 25.0 mL of 1.00M KOH?

Neutralization Reaction: