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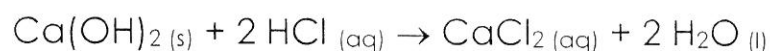
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Chemistry 11

Stoichiometry Worksheet #3 – Molarity / Titrations

Directions: Answer in the space provided. Be sure to show ALL your work. Please highlight your answer for each question.

1. How many litres of 0.100 M HCl would be required to react completely with 5.00 grams of calcium hydroxide?



2. If 10.0 ml HNO₃ completely neutralize 25.0 ml of 0.351 M KOH, calculate the molarity of HNO₃.

3. How many ml's of a 0.321 M HCl solution is required to neutralize a 5.00 ml 1.28 M KOH solution?

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4. A 112.5 ml sample of vinegar (containing acetic acid, CH_3COOH) was titrated using 0.504 M NaOH. If the titration required 20.65 ml of the NaOH solution, what was the molar concentration of acetic acid in the vinegar?

5. Consider the titration of aluminum chloride with silver acetate. If 20.0 ml of 0.500 M silver acetate is required to react with 38.20 ml of an aluminum chloride solution, what is the molarity of that solution?



