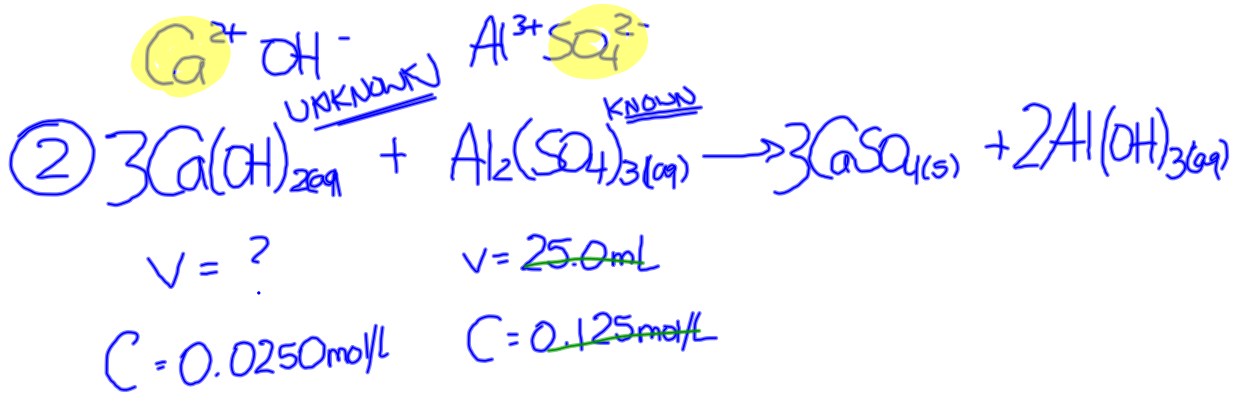


# Homework - Worksheet



Step 1: Moles Known

$$0.0250 \text{ L Al}_2(\text{SO}_4)_3 \times \frac{0.125 \text{ mol Al}_2(\text{SO}_4)_3}{1 \text{ L Al}_2(\text{SO}_4)_3} = 0.003125 \text{ mol Al}_2(\text{SO}_4)_3$$

Step 2: Moles Unknown

$$0.003125 \text{ mol Al}_2(\text{SO}_4)_3 \times \frac{3 \text{ mol Ca(OH)}_2}{1 \text{ mol Al}_2(\text{SO}_4)_3} = 0.009375 \text{ mol Ca(OH)}_2$$

Step 3: Volume Unknown

$$0.009375 \text{ mol Ca(OH)}_2 \times \frac{1 \text{ L Ca(OH)}_2}{0.0250 \text{ mol Ca(OH)}_2} = \boxed{0.375 \text{ L Ca(OH)}_2}$$

# **Solution Stoichiometry Worksheet**

# Quiz - Friday