Answer on Question 85617 in General Chemistry

The reaction between potassium hydroxide and magnesium acetate is

$$2 \text{ KOH (aq)} + \text{Mg(C}H_3\text{COO})_2(\text{aq)} = \text{Mg (OH)}_2(\text{s)} + 2 \text{ C}H_3\text{COOK(aq)}$$
 
$$2K^+ + 2OH^- + \text{M}g^{2+} + 2CH_3\text{CO}O^- = \text{Mg (OH)}_2 + 2K^+ + 2CH_3\text{CO}O^-$$
 
$$\text{M}g^{2+} + 2OH^- = \text{Mg (OH)}_2$$

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