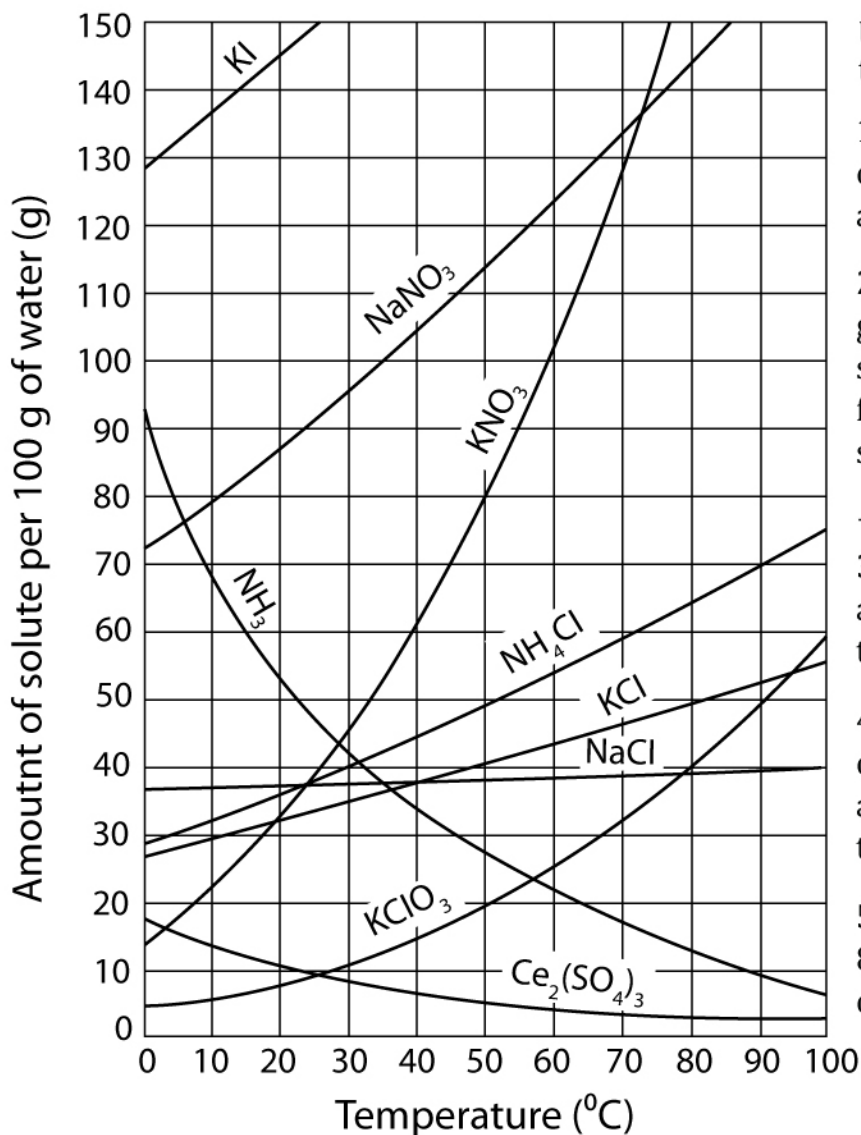


Practicing Solubility Curve



Using the above solubility curve, answer the given questions.

1. Which salt shown on the solubility curve is the least soluble in water at 10°C? _____

2. Which of the salts shown on the graph has the greatest increase in solubility as the temperature increases from 30°C to 60°C? curve is the least soluble in water at 10°C? _____

3. Which of the salts has its solubility affected the least by a change in temperature? _____

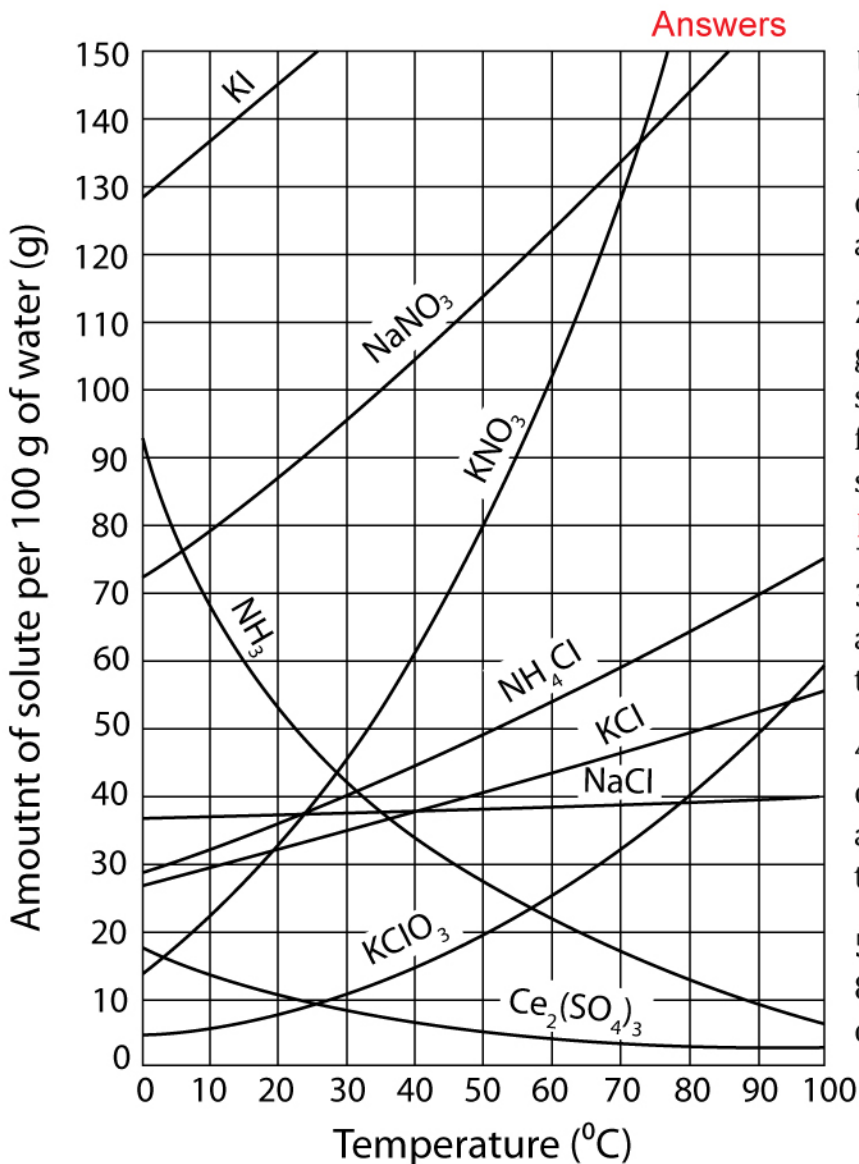
4. Which two salts have the same degree of solubility at about 85°C? affected the least by a change in temperature? _____

5. To what temperature would you heat 80 g of KNO₃ in 100 mL of water to dissolve completely? _____

6. Fill in the missing information in the table below. Note: all solutions are formed from 100 mL of water

Solution	Saturated or unsaturated	If saturated: How much more solute can dissolve in the solution?
A solution that contains 70 g of NaNO ₃ at 30 °C		
A solution that contains 50 g of NH ₄ Cl at 50 °C		
A solution that contains 20 g of KClO ₃ at 50 °C		
A solution that contains 70 g of KI at 0 °C		

Practicing Solubility Curve



Using the above solubility curve, answer the given questions.

1. Which salt shown on the solubility curve is the least soluble in water at 10°C? Potassium chlorate (KClO₃)

2. Which of the salts shown on the graph has the greatest increase in solubility as the temperature increases from 30°C to 60°C? curve is the least soluble in water at 10°C? Potassium nitrate (KNO₃)

3. Which of the salts has its solubility affected the least by a change in temperature? NaCl

4. Which two salts have the same degree of solubility at about 85°C? affected the least by a change in temperature? HCl and KClO₃

5. To what temperature would you heat 80 g of KNO₃ in 100 mL of water to dissolve completely? 48 °C

6. Fill in the missing information in the table below. Note: all solutions are formed from 100 mL of water

Solution	Saturated or unsaturated	If saturated: How much more solute can dissolve in the solution?
A solution that contains 70 g of NaNO ₃ at 30 °C	Unsaturated	26 more grams
A solution that contains 50 g of NH ₄ Cl at 50 °C	Saturated	
A solution that contains 20 g of KClO ₃ at 50 °C	Saturated	
A solution that contains 70 g of KI at 0 °C	Unsaturated	190 more grams