Quiz 5.2 - Precipitation and Acid/Base Reactions

Name: Kery

Question 1

Identify if each compound is soluble or insoluble

(NH ₄) ₃ PO ₄	PbI.	NH ₄ NO ₃	insoluble
Soluble	insoluble	Soluble	
Fe ₂ (CO ₃) ₃	Hg ₂ (NO ₃) ₂ Soluble	Ag ₂ S insoluble	BaCl. Soluble

Question 2

Predict the products (including phases) and write a net ionic equation for each of the following reactions:

$$NaCl(aq) + AgNO_{3}(aq) \longrightarrow NaNO_{3}(aq) + AgCl(s)$$

$$Ag^{\dagger}(aq) + Cl(aq) \rightarrow AgCl(s)$$

$$Pb(ClO_{4})_{2}(aq) + K_{2}So_{4}(aq) \longrightarrow PbSO_{4}(sq) + PbSO_{4}(s)$$

$$Pb^{2+}_{(aq)} + SO_{4}(aq) \rightarrow PbSO_{4}(sq)$$

$$2 \text{ LiCH}_{3}CO_{2}(aq) + Pb(NO_{3})_{2}(aq) \longrightarrow 2 \text{ LiNO}_{3}(aq) + Pb(CH_{3}CO_{2})_{2}(aq)$$

$$NO \text{ Flation}$$

$$BaI_{2}(aq) + Ag_{2}SO_{4}(aq) \longrightarrow BoSO_{4}(sq) + SO_{4}(aq) \longrightarrow BoSO_{4}(sq) + 2 \text{ Ay I (s)}$$

$$Bo^{2+}_{1}(aq) + 2 \text{ I (aq)} + 2 \text{ Ay (aq)} + SO_{4}(aq) \longrightarrow BoSO_{4}(sq) + 2 \text{ Ay I (s)}$$

$$(NH_{4})_{2}SO_{4}(aq) + FeNO_{3}(aq) \longrightarrow Fe_{1} SO_{4}(aq) + 2 \text{ NHy } M_{3}(aq)$$

$$No \text{ Plaction}$$

$$3 Na_{2}S(aq) + CrCl_{3}(aq) \longrightarrow 6 \text{ NoCl (aq)} + Cr_{3}S_{3}(s)$$