

Name: New

Question 1

Balance each chemical equation, and classify it as one of the following: Synthesis, Decomposition, Precipitation, Acid/Base, or Combustion

$$\underbrace{2}$$
 Fe(NO₃)₃(aq) + $\underbrace{3}$ Li₂S(aq) \longrightarrow $\underbrace{-}$ Fe₂S₃(s) + $\underbrace{6}$ LiNO₃(aq)

$$3$$
 $H_2SO_3(aq) + 2$ $PO_4^{3-}(aq) \longrightarrow 3$ $SO_3^{2-}(aq) + 2$ $H_3PO_4(aq)$

$$Sb_4O_6(s) \longrightarrow \mathcal{Y} Sb(s) + \mathcal{S}O_2(g)$$

$$C_5H_{10}(g) + CO_2(g) \longrightarrow CO_2(g) + O_2(g)$$

$$N_2(g) + 3 H_2(g) \longrightarrow NH_3(g)$$