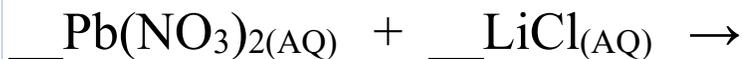
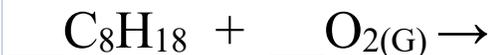
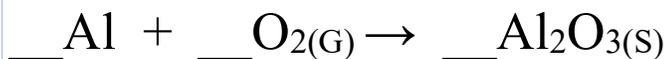


## Balancing Equations Handout #2

Balance these skeleton reactions. Use phase symbols, indicate what reaction type they are (S, D, SR, DR, or Comb)

Reaction  
type



ANSWERS	Reaction type
$\text{C}_3\text{H}_{8(\text{G})} + 5\text{O}_{2(\text{G})} \rightarrow 3\text{CO}_{2(\text{G})} + 4\text{H}_2\text{O}_{(\text{G})}$	Comb
$3(\text{NH}_4)_2\text{S}_{(\text{AQ})} + 2\text{Al}(\text{NO}_3)_3(\text{AQ}) \rightarrow 6\text{NH}_4\text{NO}_3(\text{AQ}) + \text{Al}_2\text{S}_3(\text{S})$	DR
$\text{Ba}_3\text{P}_2(\text{S}) \rightarrow 3\text{Ba}(\text{S}) + 2\text{P}(\text{S})$	D
$4\text{Al} + 3\text{O}_{2(\text{G})} \rightarrow 2\text{Al}_2\text{O}_{3(\text{S})}$	S
$\text{Na}_2\text{SO}_{4(\text{AQ})} + \text{SrCl}_{2(\text{AQ})} \rightarrow 2\text{NaCl}_{(\text{AQ})} + \text{SrSO}_{4(\text{S})}$	DR
$2\text{Fe}_{(\text{S})} + 3\text{CuCl}_{2(\text{AQ})} \rightarrow 2\text{FeCl}_{3(\text{AQ})} + 3\text{Cu}_{(\text{S})}$	SR
$2\text{C}_8\text{H}_{18} + 25\text{O}_{2(\text{G})} \rightarrow 16\text{CO}_{2(\text{G})} + 18\text{H}_2\text{O}_{(\text{G})}$	Comb
$2\text{Co}_{(\text{S})} + 3\text{S}_{(\text{S})} \rightarrow \text{Co}_2\text{S}_3(\text{S})$	S
$2\text{KNO}_{3(\text{S})} \rightarrow 2\text{KNO}_{2(\text{S})} + 3\text{O}_{2(\text{G})}$	D
$\text{Cl}_{2(\text{G})} + 2\text{LiBr}_{(\text{AQ})} \rightarrow \text{Br}_{2(\text{L})} + 2\text{LiCl}_{(\text{AQ})}$	SR
$2\text{Al}(\text{NO}_3)_3(\text{AQ}) + 3(\text{NH}_4)_2\text{SO}_4(\text{AQ}) \rightarrow \text{Al}_2(\text{SO}_4)_3(\text{S}) + 6\text{NH}_4\text{NO}_3(\text{AQ})$	DR
$\text{Pb}(\text{NO}_3)_2(\text{AQ}) + 2\text{LiCl}_{(\text{AQ})} \rightarrow \text{PbCl}_{2(\text{S})} + 2\text{LiNO}_3(\text{AQ})$	DR
$\text{BeF}_{2(\text{S})} \rightarrow \text{Be}_{(\text{S})} + \text{F}_{2(\text{G})}$ (balanced as is)	D