KEY

Predicting Reaction Products

Predict the products for the following reactions, balance the equation, then classify the type of reaction:

SR 1) ___ Na + ___ $FeBr_3$ → Fe + NaBr
+1 +3 -1 +1 -1

DR 2) ___ NaOH + ___ H_2SO_4 → HOH + Na_2SO_4
+1 -1 +1 -2 +1 -1 +1 -2

Comb. 3) ___ $C_2H_4O_2$ + ___ O_2 → H_2O + CO_2

DR 4) ___ $PbSO_4$ + ___ $AgNO_3$ → $Pb(NO_3)_2$ + Ag_2SO_4
+2 -2 +1 -1 +2 -1 +1 -2

decomp 5) ___ PBr_3 → P + Br_2
diatomic

SR 6) ___ HBr + ___ Fe (assume iron (III) → $FeBr_3$ + H_2
+3 -1 diatomic

DR 7) ___ $KMnO_4$ + ___ $ZnCl_2$ → $Zn(MnO_4)_2$ + KCl
+1 -1 +2 -1 +2 -1 +1 -1

DR 8) ___ MnO_2 + ___ $Sn(OH)_4$ → $Mn(OH)_4$ + SnO_2
+4 -2 +4 -1 +4 -1 +4 -2

Comb. 9) ___ O_2 + ___ $C_5H_{12}O_2$ → H_2O + CO_2

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