

HW 15-6 Soln)

A) $p^+ + p^+ \rightarrow p^+ + p^+ + \pi^0$

	p^+	p^+		p^+	p^+	π^0	
Q	+1	+1		+1	+1	0	Balanced
L_e	0	0		0	0	0	Balanced
L_μ	0	0		0	0	0	Balanced
L_τ	0	0		0	0	0	Balanced
B	+1	+1		+1	+1	0	Balanced
S	0	0		0	0	0	Balanced

B) $\Lambda^0 \rightarrow p^+ + \pi^-$

	Λ^0		p^+	π^-	
Q	0		+1	-1	Balanced
L_e	0		0	0	Balanced
L_μ	0		0	0	Balanced
L_τ	0		0	0	Balanced
B	+1		+1	0	Balanced
S	-1		0	0	Unbalanced

C) $p^+ + p^+ \rightarrow n^0 + \Sigma^+ + K^0 + \pi^+$

	p^+	p^+		n^0	Σ^+	K^0	π^+	
Q	+1	+1		0	+1	0	+1	Balanced
L_e	0	0		0	0	0	0	Balanced
L_μ	0	0		0	0	0	0	Balanced
L_τ	0	0		0	0	0	0	Balanced
B	+1	+1		+1	+1	0	0	Balanced
S	0	0		0	-1	+1	0	Balanced