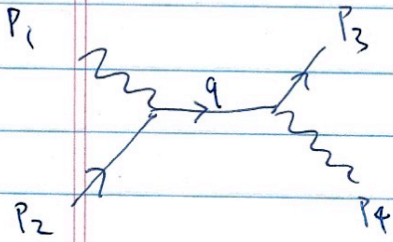


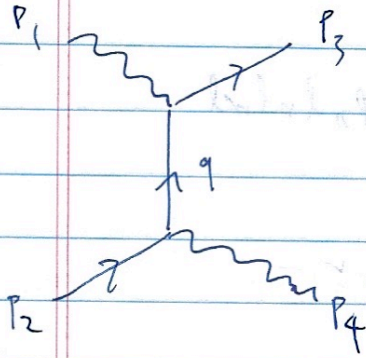
Schwartz 9.1(a)

$$\partial q \rightarrow \partial q: \text{diagram} + \text{diagram}^*$$



$$iM = \epsilon_\mu(p_1) i e (p_2^\mu + q^\mu) \frac{i}{q^2 - m^2 + i\epsilon} i e (q^\nu + p_3^\nu) \epsilon_\nu^*(p_4)$$

$$\Rightarrow M = (-e^2) \epsilon_\mu(p_1) (p_2^\mu + q^\mu) \frac{1}{q^2 - m^2 + i\epsilon} (q^\nu + p_3^\nu) \epsilon_\nu^*(p_4)$$



$$iM = \epsilon_\mu(p_1) i e (p_3^\mu + q^\mu) \frac{i}{q^2 - m^2 + i\epsilon} i e (p_2^\nu + q^\nu) \epsilon_\nu^*(p_4)$$

$$\Rightarrow M = (-e^2) \epsilon_\mu(p_1) (p_3^\mu + q^\mu) \frac{1}{q^2 - m^2 + i\epsilon} (q^\nu + p_2^\nu) \epsilon_\nu^*(p_4)$$

It remains to check Ward Identity.