$$d\binom{x}{y} = \binom{x}{dy} + (-1)^p \binom{dx}{y}$$

$$\varepsilon(p,q) \downarrow \qquad \qquad \qquad \downarrow \varepsilon(p,q+1) \qquad \qquad \downarrow \varepsilon(p+1,q)$$

$$d\binom{y}{x} = (-1)^q \binom{dy}{x} + \binom{y}{dx}$$