

$CF[\omega_. \mathbb{E}[Q_]] := \text{Simplify}[\omega] \mathbb{E}[\text{Simplify}[Q]];$

$\mathbb{E} / : \mathbb{E}[Q1_] \mathbb{E}[Q2_] := CF @ \mathbb{E}[Q1 + Q2];$

$\omega1_. \mathbb{E}[Q1_] \equiv \omega2_. \mathbb{E}[Q2_] := \text{Simplify}[\omega1 == \omega2 \wedge Q1 == Q2];$