

ws-linear^{11,40}

$\forall a, b: \mathbb{Q}, p: \text{FinProbSpace}, F, G: (\text{Outcome} \rightarrow \mathbb{Q}).$
 $\text{weighted-sum}(p; \lambda x. (a * (F(x)) + (b * (G(x))))$
 $=$
 $((a * \text{weighted-sum}(p; F)) + (b * \text{weighted-sum}(p; G)))$
 $\in \mathbb{Q}$