expectation-linear[11,40]

$\forall p$:FinProbSpace, n:$\mathbb{N}$, X, Y:RandomVariable(p;n), a, b:$\mathbb{Q}$.
$\mathrm{E}(n;a*X + b*Y) = ((a * \mathrm{E}(n;X)) + (b * \mathrm{E}(n;Y))) \in \mathbb{Q}$