

expectation-rv-add-fourth^{11,40}

$\forall p:\text{FinProbSpace}, n:\mathbb{N}, X, Y:\text{RandomVariable}(p;n).$
 $E(n;(x.(x * x) * x * x) o X + Y)$
= ((E(n;(x.(x * x) * x * x) o X)
+ ((4 * E(n;X * X * X * Y)) + (6 * E(n;X * X * Y * Y)))
+ (4 * E(n;X * Y * Y * Y)))
+ E(n;(x.(x * x) * x * x) o Y))
 $\in \mathbb{Q}$