P~ Uniform (0,3) 8.3 3-P also has the same distribution as Pie. 3-P ~ Uniform (0,3) $E[Q] = E \left[log \left(\frac{P}{3-P} \right) \right]$ = E [log(P) - log(3-P) = 6 [log(P)]

- E[log(3-P)]

(By linearity of Expectations)