$V_0 = P(Y)$
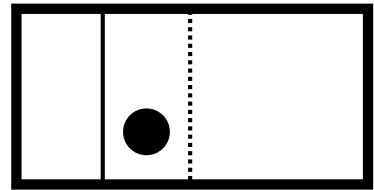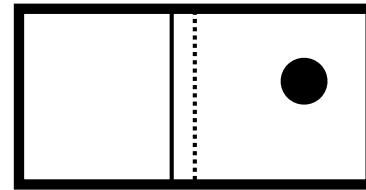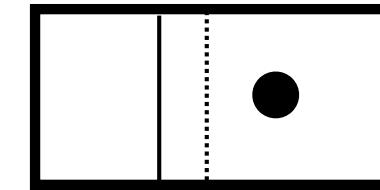
$V_f = P(Y|x_{\leq t})$

$V_f = P(Y|x_1)$

$V_f = P(Y|x_1, x_2)$