as signment 12

March 19, 2021

$$\sum_{u=t}^{T-1} \gamma^{u-t} \cdot (R_{u+1} + \gamma \cdot V(S_{u+1}) - V(s_u)$$

$$= \sum_{u=t}^{T-1} \gamma^{u-t} \cdot R_{u+1} + \sum_{u=t}^{T-1} \gamma^{u+1-t} V(S_{u+1}) - \sum_{u=t}^{T-1} \gamma^{u-t} V(s_u)$$

$$= G_t + \sum_{v=t+1}^{T} \gamma^{v-t} V(S_v) - \sum_{u=t}^{T-1} \gamma^{u-t} V(s_u)$$

$$= G_t - V(S_t)$$

[]: