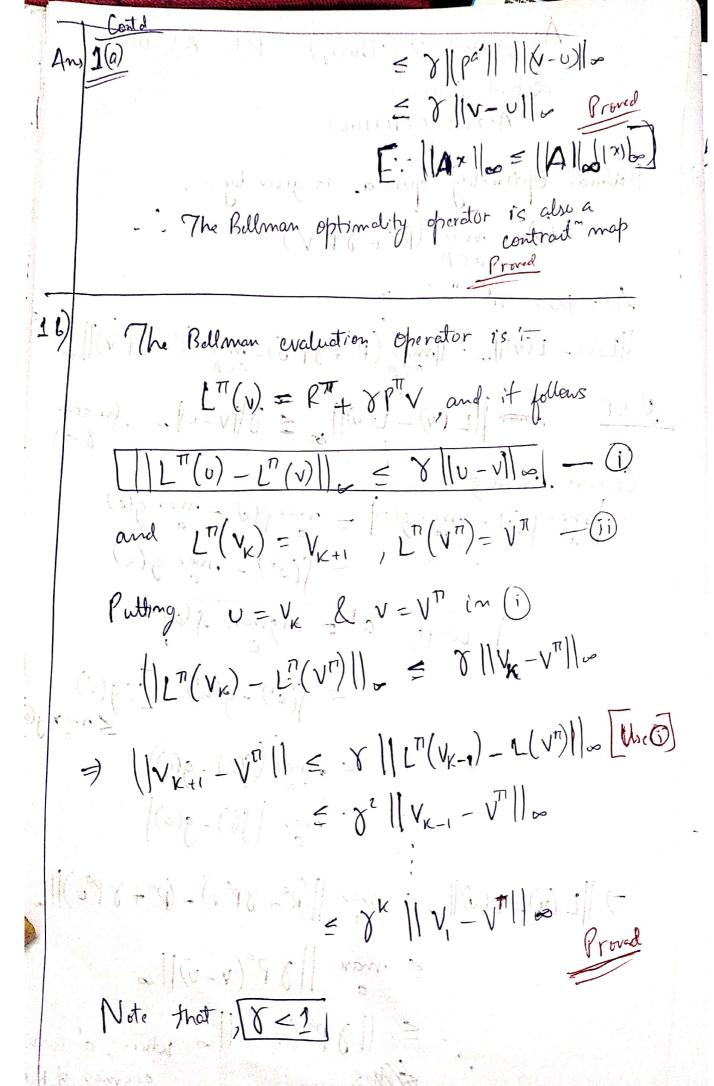
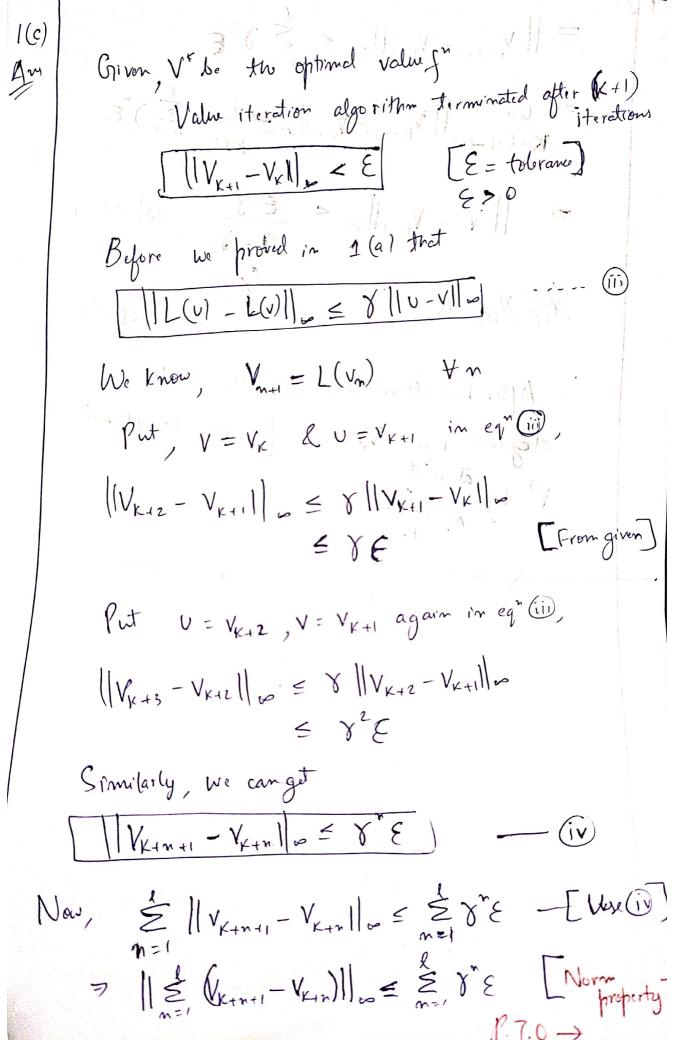
RL: A] 3000 Assignment - 2 (Theory) Dond Loitam A121BTE(H11009 Bollman Optimalty operator is given by:-1(a) L(v) = max (R+ xp°V) Let's take VIL(U) - L(V) | = | max (Ra + 8 pau) - max (Ra + 8 pav) | = ADDA ((L(V) - L(V)) = 8 |V-V| = for some Consider, W. (.o.g |man f(a) - man g(a)| = man f(a) - man g(a)= f(a+) - mar g(a) where at = argman f(e) $\leq \int (a^{\dagger}) - g(a^{\dagger}) \cdot \left[\cdot \cdot \cdot \cdot g(a^{\dagger}) \right]$ < max g(a) (s(a) -g(a)) / max [s(a) -g(a)] =) || L (v) - L(v) || = max || (Ra + 8 Pav) - (Ra + 8 Pav) || = < | | x pa (v-v) | where, a' is the argman of R. N.S #Men P.7.0-)

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> | | V_{K+1+1} - V_{K+1}||∞ ≤ ≥ y r € =) lim || V_K+1+1-V_K+1 || 00 = Limb = 1 8 E || v* - V_K+1 || = = = x , |x| = 1 \$6/1 Xx41 lis (Assume infinite points of Eto, 1) - After K+1 Herations, the Value Herati algorithm result VK+1 is far from the optimal