Lec. 22-b-questions

0). Check accuracy of both formulas on previos

1.) Calculate $U(P_n; f) - L(P_n; f)$ explicitly

2.) Show that as $h \longrightarrow \infty$ that for $\left(f(x) = x^2 \right)$

$$U(P_n; f) - L(P_n, f) \longrightarrow 0$$

Show that it must be the case that

a.) $U = L$ i.e. by definition x^2 is Darboux Integrable

$\lim\limits_{h \to \infty} = \lim\limits_{h \to \infty} \Rightarrow$ Limit

b.) $U = \lim\limits_{h \to \infty} U(P_n; f)$

c.) $L = \lim\limits_{h \to \infty} L(P_n; f)$