	Question 2
eq. 2.80	n _t ½
$U_j'' = \left(u + \frac{1}{2} \Delta t u_t + \frac{1}{2} \Delta t u_$	1 (1 st) We + 1 (1 st) 3 + J
$u_j'' = \int u - \frac{1}{2} 0 + u_t +$	1 (1 At) Ott - 1 (1 At) 3 +]
if w subhact he	huo:
Uj - Uj bist term	v-v = 0
scond term:	# DEUE - (-IDEUE) = DEUE
third teim:	$\frac{1}{2}\left(\frac{1}{2}Nt\right)^{2}Vtt - \frac{1}{2}\left(\frac{1}{2}Nt\right)^{2}Vtt = 0$
faun tem:	$+\frac{1}{6}\left(\frac{1}{2}Dt\right)^{3}U_{ttt}$ $-\left(-\frac{1}{6}\left(\frac{1}{2}Dt\right)^{3}U_{HF}\right)$
	$= \frac{1}{3} \left(\frac{1}{2} bt \right)^3 vtt e$
	$= \frac{1}{3} \times \frac{1}{8} \left(Dt \right)^3 \text{ Uttt}$
	$= \frac{1}{24} (\Delta t)^3 uttt.$









