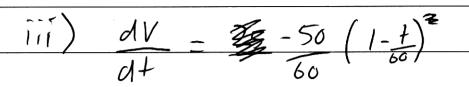


79i) \$ 5 The series h	ers a limiting
sum because \$	
becomes progressi	ively smaller
becomes progressi (<1) by	t is still
<u> </u>	
ii) So = 15-3	
$= \frac{1}{\sqrt{5}+3} \times \frac{\sqrt{5}+3}{\sqrt{5}+3}$	
= \(\bar{5} + 3\) \[ -\bar{5} = 3\\ 5 - 9\] \[ -\bar{4}\)	]
$bi) +=0   V= 25(1*)^2$	
$b_i$ ) $t=0$ ; $V=25(1*)^2$ V=25	
$ii)$ = $\frac{25}{4} = 25(1-\frac{1}{60})^2$	
$1 - \frac{2t}{330} + \frac{t^2}{360} = \frac{1}{4}$	P 2700 S-120 F -30,-90
$1^{2}-1201+2700=0$	F -30,-90
$\xi f^2 - 30 + 2700 = 0$	
+(+-30) \$ -90 (+ \( \overline{4}\) 30) = G	t= 30,90
(+-30)(+-90)=0	cooler is 4 full at 30 seconds

02WB4





$$= -\frac{5}{6}(1-\frac{t}{60})$$

(i) The probability of getting 
$$\frac{1}{4}$$
 matching socks is:
$$P(RR) + P(WW) + P(YY) + P(BB)$$

$$= \frac{1}{8} + \frac{1}{2} + \frac{1}{5} +$$