(ii) Show that

n=1

$$\sum_{s=1}^{48} \log_s \left(\frac{n+2}{s+1} \right) = 2$$

$$\sum_{n=1}^{48} \log_5 \left(\frac{n+2}{n+1} \right) = 2$$

 $\sum_{n=0}^{\infty} 20 \times \left(\frac{1}{2}\right)^{r}$

(3)

$$\left(\frac{n+2}{n+1}\right)=2$$