

$$v) \text{مطلوبه} \rightarrow \lim_{a \rightarrow 1} \frac{\sqrt{ka + \sqrt{a}} - r}{r\sqrt{a} - 1} \times \frac{\sqrt{ka + \sqrt{a}} + r}{\sqrt{a^r + 1 + \sqrt{a}}} \times \frac{r}{r}$$

$$\xrightarrow{\text{HOP}} \frac{r}{r} \times \frac{kr + \frac{1}{r\sqrt{a}}}{1} = \frac{r}{r} \times \frac{1}{r} = \frac{r}{r}$$