Finding a Hessian

1分

Suppose we have

$$g(a,b) = -\log(1-a-b) - \log(a) - \log(b)$$

Now let's find the Hessian. What is it?

选项*

- $\begin{bmatrix} \frac{1}{(1-a-b)^2} + \frac{1}{a^2} & \frac{1}{(1-a-b)^2} \\ \frac{1}{(1-a-b)^2} & \frac{1}{(1-a-b)^2} + \frac{1}{b^2} \end{bmatrix}$
- $\begin{bmatrix} \frac{1}{a^2} & 0 \\ 0 & \frac{1}{b^2} \end{bmatrix}$
- $\begin{bmatrix} \frac{1}{(1-a-b)^2} & 0 \\ 0 & \frac{1}{(1-a-b)^2} \end{bmatrix}$
- $\begin{bmatrix} \frac{1}{(1-a-b)^2} - \frac{1}{a^2} & \frac{1}{(1-a-b)^2} \\ \frac{1}{(1-a-b)^2} & \frac{1}{(1-a-b)^2} - \frac{1}{b^2} \end{bmatrix}$
- $\begin{bmatrix} \frac{1}{(1-a-b)^2} & \frac{1}{(1-a-b)^2} \\ \frac{1}{(1-a-b)^2} & \frac{1}{(1-a-b)^2} \end{bmatrix}$

保存回答 提交最终回答