

$1\omega, 2\omega$

$$y = -1a - a$$

$$\frac{f(r)}{f'(r)} = \frac{-1a - a}{-a} = \frac{-r(-\frac{r}{r}) - a}{\frac{r}{r}} = \frac{-1}{r}$$

(15)

$$\Rightarrow f(r) = y = -1a - a = f(r) \quad f(r) + 1a + a = r \Rightarrow 1a = -r \Rightarrow a = -\frac{r}{1} \Rightarrow \frac{f(r)}{f'(r)} = \frac{-\frac{r}{1}}{-1} = \frac{r}{1}$$

-v

$$g'(u) = -\frac{1}{u} (u^2 - 1)^{-\frac{1}{2}} \times 2u = -\frac{1}{u} \times (u^2 - 1)^{-\frac{1}{2}}$$

$$g'(\frac{r}{\sqrt{u}}) = -\frac{1}{\sqrt{u}}$$

$$f'(g(\frac{r}{\sqrt{u}})) \times g'(\frac{r}{\sqrt{u}})$$

$$g(\frac{r}{\sqrt{u}}) = \frac{1}{\sqrt{u}} = \frac{1}{r} = r$$

$$y' = g'(\frac{r}{\sqrt{u}}) f'(r) = -\frac{1}{\sqrt{u}} \times r = r \times (-\frac{1}{\sqrt{u}}) \rightarrow \text{برابر}$$

(1)

$$f'(g(\frac{r}{\sqrt{u}})) \Rightarrow g'(\frac{r}{\sqrt{u}}) = \frac{1}{\sqrt{u}} = \frac{1}{r} = \frac{1}{\sqrt{u}}$$

$$\Rightarrow \frac{1}{\sqrt{u}} = \frac{1}{r} = \frac{1}{\sqrt{u}}$$

$$f(r) = r \left(\frac{r}{r} \right) \times \left(\frac{r}{r} \right) \Rightarrow f'(r) = r \times \left(\frac{r}{r} \right) \times \left(\frac{r}{r} \right) = r$$

$$g'(r) = f'(r) + r f'(r) = 2a \frac{r}{r} = 2$$

(2)

-A

$$\lim_{h \rightarrow 0} \frac{f(a+h) - f(a)}{h} = \frac{f(a+h) - f(a)}{h(a+h) - h a} = \frac{f(a+h) - f(a)}{h(a+h - a)} = \frac{f(a+h) - f(a)}{h a} = \frac{f(a+h) - f(a)}{h} \times \frac{1}{a} = \frac{1}{a} f'(a)$$

-9

(2)

$$y = 1 + \frac{r}{r} \Rightarrow \frac{r}{r} = -1$$

-1.

$$y' = r a - r = -r \Rightarrow a = 1 \quad y = 1 - r a = r \Rightarrow (1, r)$$

(2)