

Lims - qm - 5

$$\rightarrow a = -\frac{r}{r}$$

$$\hookrightarrow f'(3) - f(3) = 2 \rightarrow -a + ra + a = 2 \rightarrow ra = -2$$

$$\rightarrow f(x) = + \frac{r}{r} x - a \rightarrow f'(3) = \frac{r}{r} \quad f(x) = \frac{r}{r} x - a \rightarrow \frac{f(x)}{f'(x)} = \frac{-\frac{1}{r}}{\frac{r}{r}} = \left(-\frac{1}{r}\right)$$

$$f(x) = \left(a \left[x^r + \frac{1}{r} \right] \right)^r + 1 \rightarrow f'(x) = \left(\frac{1}{\sqrt{x^r-1}} \left[x^r + \frac{1}{r} \right] \right)^r + 1$$

$$g(x) = \frac{1}{\sqrt{x^r-1}} \rightarrow \left(\frac{1}{\sqrt{x^r-1}} \right)^r + 1 \rightarrow \frac{1 \times r x}{r (\sqrt{x^r-1})^r} \left(\frac{x}{\sqrt{x^r-1}} \right)$$

$$\rightarrow \frac{14 \times \frac{r}{\sqrt{1}}}{-r \times \frac{1}{r}} \times \frac{r}{r} = -14 \sqrt{1} \times 1 = -14 \sqrt{1} \rightarrow -\frac{4 \times \sqrt{1}}{14 \sqrt{1}} = \left(-\frac{1}{r}\right)$$

$$f'(-1) = \frac{r}{r} \quad T = a \rightarrow f(-1) = f(\epsilon), \quad f'(-1) = f'(\epsilon)$$

$$g(x) = f(x+1) + f(x+1) \rightarrow f'(x+1) + r f'(x+1)$$

$$g'(-r) = ? \rightarrow f'(-1) + r f'(\epsilon) \rightarrow \frac{r}{r} + \frac{r}{r} = \frac{1r}{r} = 4$$

$$f(x) = (x-r) \sqrt{x+r} \rightarrow f(x) = r$$

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

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

$$4y - rm = 1 \rightarrow 4y = rm + 1 \rightarrow y = \frac{1}{r} a + \frac{1}{4} \rightarrow y = -rm + 1$$

$$y = x^r - rm + a \rightarrow rm - r$$

$$\rightarrow -rm = rm - rm \rightarrow (x=1)$$

$$A = \frac{1}{r}$$