经合约了二(导数)参考答案

一填空选择题

(1) (2007有研究)设备是(X)在X20处连续,下沙错误的是(D).

物(A): 处于(x) 核桃,次为a,如 f(x) = a+d, 如 = 0

:. $f(x) = (x+a)x|_{x=0} = 0$:. (a) x = 0

(B): (1)+f(-7) fate, 5/23b, m/f(x)+f(x) = b+f,

其中になる。 [f(x)+ft]=(b+な)*/x=0=>

\$\f(0)+f(0)=0:, f(0)=0, (B)\$

(c) (b) f(x) tote, va (b) \$0 f(0)=0., x=0 x-0 tote

Pp f(0) = 20 f(x)-f(0) to to. (C) 25

(D) 奔和不足以海明 f'(0)习, i. (D)培育.

(2) $\sqrt{3} f(x) = \int \frac{f(1) - f(1-x)}{2x} = -1, \text{ and } y = f(x) = f(1) = \int \frac{f(1)}{2x} dx$

你打物都要为(3)

(A) 2, (B)-2, (d) 1, (D)-1

物治: : 如 $\frac{f(1)-f(1-x)}{2x} = \frac{1}{2}$ $\frac{f(1-x)-f(1)}{-x} = \frac{1}{2}$ $\frac{f(1-x)-f(1)}{-x} = \frac{1}{2}$

:、f(1)=-2 智豪为(B)

(3) (1999) \$29\$ $(x) = \{ \frac{1-(5)}{\sqrt{x}}, x70, 4 + 9(x) \}_{x^2g(x)}, x \leq 0 \}$ 348, |y|(x) $|x|(x) = \{ \frac{1-(5)}{\sqrt{x}}, x \neq 0, x \leq 0 \}$

44/8:
$$f(0^{+}) = \frac{1}{(x+0)^{4}} + \frac{1}{(x+0)^{4}} = \frac{1}{(x+0)^{4}} + \frac{1}{(x+0)^{4}} = \frac{1}{(x+0)^{4}} + \frac{1}{(x+0)^{4}} = 0 = f(0)$$

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(1) 世级 { X = (0st+(ost)上对起了 += 是处的 tr线能: Y+(1-v2) x-2=0 御信: Y'(水)=(のt, X'(七)=-5)+2(のt·(-5)+) $\frac{1}{1+\sqrt{2}}\frac{y'(x)}{1+2} = \frac{(07t)}{1+2} = \frac{1+\sqrt{2}}{1+2}, \quad \chi(x) = \frac{1+\sqrt{2}}{2}, \quad \chi(x)$ $(y-1-\frac{1}{2}) = (1-\sqrt{2})(x-\frac{1+\sqrt{2}}{2})$ $P(y+(1-\sqrt{2})x-\frac{1}{2}=0)$ (8) 3/2 y= Insintro, rendy=(d) 4/6: dy= 1/5 dsivx (= 1/2 cosux dvx = 5/2 cosux dvx = 5/2 cosux. 2/4 dx $= \frac{\cot \sqrt{x}}{2\sqrt{x}} dx = \cot \sqrt{x} d\sqrt{x}$ +3/9/3/2, : %海为(2) 2句: Y=f(x) 施智点与 y=S(x 相色):, Y(o)=f(o)=6x)/h=o=1=k Alto f(0)= Sin0=0 = to f(0)= f(x) = 1= f(x) 3. 4: (1) =5: fox) =5+ x, \$\frac{1}{2} = 5 f(x) = (5+1)(x-2). f(2)=0f(x) = f(x) =

4. if (x) 在x2/丝旗, i, 每日 f(h)=a-b=f(l)=1 又: f(x) な x=1 対 する。:、 f(1) = a = f(1) = 2, km b=1 (3x-2), $f'(x) = crress x^2$ $y'(x) = ar(2)(\frac{3x-2}{3x+2})^{2} \cdot (\frac{3x-2}{3x+2})' = ar(2)(\frac{3x-2}{3x+2})^{2} \cdot (\frac{3x+2}{3x+2})^{2}$: dy/x=0 = 3 x ovresi(-1) = -32 6. 6/8: 3x+ 210f, f(x)= (x25+)=2x.5x+x2(0)+.(-/2) 7664% : 公林((水)=1200+5次十方水2, 美级盖尺(水)=160水水2 波知(注) M(x), m M(x)= R(x)-(x)=- 指が+15tx-1200 二. ① 好到的好本 (632) = 48 ② 中产301年 (30)=[-芒7+155] x=30=89 1 4 /3 30/4 (n) 1/3 (1/2) = (1/80) = (3 8. Fig 0 $y'=(e^{arctom \sqrt{x}})'=e^{arctom \sqrt{x}}$ $\frac{1}{H(\sqrt{x})^2}\cdot \frac{1}{2\sqrt{x}}=\frac{e^{arctom \sqrt{x}}}{2\sqrt{x}(H^{\chi})}$ 3 4=(x+xx) = 1+(exmx)= 1+exmx. (14mx+x)=Hxx(Hmx) 3 4/2/2×cox) = 2 (0,0x) = -4 csc27. cot27

8(4)
$$y' = \left[\frac{x}{2}\sqrt{x^{2}+4^{2}} + \frac{4^{2}}{2}\ln(x+\sqrt{x^{2}+4^{2}})\right]'$$

$$= \frac{\sqrt{x^{2}+a^{2}}}{2} + \frac{x^{2}}{2\sqrt{x^{2}+a^{2}}} + \frac{a^{2}}{2\sqrt{x^{2}+a^{2}}} - \frac{(1+\frac{x}{\sqrt{x^{2}+a^{2}}})}{\sqrt{x^{2}+a^{2}}}$$

$$= \frac{\sqrt{x^{2}+a^{2}}}{2} + \frac{x^{2}}{2\sqrt{x^{2}+a^{2}}} + \frac{a^{2}}{2\sqrt{x^{2}+a^{2}}} - \sqrt{x^{2}+a^{2}}$$

9. '' $f(x) = xe^{x}$

$$f'(x) = xe^{x}$$

$$f''(x) = 3e^{x} - xe^{x}$$

$$f''(x) = 3e^{x} - xe^{x}$$

$$f''(x) = -4x + xe^{-x}$$

$$f'''(x) = f(x+y)$$

$$f''(x) = -4x + xe^{-x}$$

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$$f''(x) = f''(x+y)$$

$$f''(x) = -4x + xe^{-x}$$

$$f''(x) = -4x + xe^$$

128 : $\begin{cases} y = \text{arctant} \\ x = t - \ln(1+t^2) \end{cases}$: $\begin{cases} y'(t) = \frac{2t}{t+1^2} \end{cases}$ $(-1)y'(x) = \frac{y(t)}{y(t)} = \frac{1}{(1-1)^2}$ $(2)^{4}(x) = \frac{(1-x)^{2}}{(1-x)^{2}} = \frac{-2(t^{2}+1)}{(1-x)^{2}}$ 1322: ; f(a) = f(b) = 0, f(a) f(b)>0 : $f'(a) \cdot f'(b) = \frac{1}{x - a} + \frac{f(x) - f(a)}{x - b} = \frac{1}{x - b}$ 73(1), : fox) ecta, b]: = [x, x2] &(a,b), A f(x1) > 2, f(x2) < 0, xf(x) ∈ (Ix1, 72) (xx1, 72) (xx1, 72) · 油度点标准理相对别,维克E(x1,x2)C[a,b] スタ(2)4度型,業から(1), 18) 22 3名(イ), X2), 使f(32)=0 结准得证.