7.3

1.
$$\frac{1}{5x}$$
 $f(x) = 5x^2 - 2\cos x$

2. $\frac{1}{5x}$ $f(x) = 5x \sin x$

2. $6x + 2\sin x$

2. $6x + 2\cos x$

2. 6

= - Coty. Se (01x

25. 3 24 5m x = cos x ·2x + 2 5mx 2 (五)=元 y23+6.-510 72 ym 34-3 J3

75+(x4+3x2-2) = 5 (x4+3x2-2) + (4x2+6x) = -2(1+ sec x) = -2(1+ sec x) -3. (0+ sec + tanx) $\frac{12}{2}(z^2+1)^{-1} = -1(z^2+1)^{-2} \cdot 2z$ 3. sin (et) + e sin + = sin (os(et) · et + e sint · cos + 13, y= Los (a3+x3) = -sin(a3+x3). (3a2+3x2) 14 3 2 + 3 cos x · - sin x 15, 1= xe-kx = ekx. x + 1. e-kx = 10000 ce-kx = (xxx)(xe(xxxx)(-x) (-Sin4+)(e-2+) + (e-2+)(cos4+)

27.
$$\sqrt{\int r^2 + 1}$$
 $\sqrt{\int r^2 + 1}$ $\sqrt{\int r^2 + 1}$

Sain Cos (tan 24) . sec 2x.2

how to find

f'(3)?

10 (1+2+) - 2

20(1)= 20

V=20x+1

63, a. 5.6=30 b. 9.4=36

$$= e^{+\sin^2 t} \cdot = e^{+\sin^2 t} \cdot (t \cdot \sin^2 t)$$

$$= e^{+\sin^2 t} \cdot (t \cdot \cos^2 t + \sin^2 t)$$

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= 6 (3+1) 5. v3+1-3v3 (v3+1)2

,5 (1+x3) 3x2

 $.5(\frac{1}{3})\cdot 3\cdot 2^{2}$

(Paxt)

HXSCY

27. Triti - .5(r2+1)-5. 2r mg