75,(x4+3x2-2) = 5(x4+3x2-2) (4x3+6x) 8. 100 (4x-x2) · (4-2x) 9. ½ (si-2x)-5.5. -2 10. An Of CIFFECX - (sec x fan x) $\frac{d}{dx}(1+secx)^{-2}(1+secx)^{-3}\cdot(0+sectanx)$ (z2+1) = -1(z2+1) · 2z 3. sin (et) + esin + = sin cos(et) · et + esint · cos + 13, y= Los (a3+x3) = -sin(a3+x3). (3a2+3x2) 14. 312 + 3cos x · -sin X 15, 1= Xe-kx = = = kx . X + 1. e-kx = (WH) (e-kx) (ch) b. = (xA)(xe(k+)(x)(-k) (-Sin4+)(e-2+) + (e-2+)(cos4+)

17. f(x)= (2x-3)4. (x2+4+1)5 = 8(2+3)3(x2+x+1) + 5(2+3)(2+1)(x2+41)4 = (2+3)3 (x2+x+1)4 (28x2-12+7) (x2+1)3 (x+2)6 6(x2+2)(x2+1)3·2x + 3(x2+1)(x2+2)6·2x 19. (++1) (2+2-1) = 3(2+2-1)(++1) (++1) (++1) . 22. J(J+1) 18+4) W 12(x2+1)-13 · 52+4 · 2x - 52+1 · 2 (x2+4)-5. x3 23, \$\frac{1}{5}, \big| 0 \big| -\chi^2 = (1-\chi^2) \big| 0^{-\chi^2} \cdot -2\chi 24, = -1/x = -x-1.5-x-1=1 .-1(x)-2

27.
$$\frac{r}{Jr^{2}+1}$$
 $Jr^{2}+1$ $-.5(r^{2}+1)^{-.5}$. $2r$ r

28. $e^{v}-e^{-v}$ $(e^{v}-e^{-v})(e^{v}+e^{-v})-(e^{v}+e^{-v})(e^{v}-e^{-v})$
 $(e^{v}-e^{-v})$ $(e^{v}+e^{-v})-(e^{v}+e^{-v})(e^{v}-e^{-v})$
 $(e^{v}+e^{-v})$ $(e^{v}+e^{-v})$ $(e^{v}+e^{-v})$
 $(e^{v}+e^{-v})$ $(e^{v}+e^{-v})$ $(e^{v}+e^{-v})$
 $(e^{v}+e^{-v})$ $(e^{v}+e^{-v})$ $(e^{v}+e^{-v})$
 $(e^{v}+e^{-v})$ $(e^{v}+e^{-v})$ $(e^{v}+e^{-v})$
 $(e^{v}+e^{-v})$ $(e^{v}+e^{-v})$ $(e^{v}+e^{-v})$ $(e^{v}+e^{-v})$
 $(e^{v}+e^{-v})$ $(e^{v}+e^{v})$ $(e^{v}$

f'(3)?

$$\begin{array}{lll}
Q_{1} & \chi^{4}(x+y) = \chi^{2}(3x-y) \\
& (1+\frac{1}{2}\chi)(\chi^{4}) + (4\chi^{3}(x+y) = (3-\frac{1}{2}\chi)(\chi^{2}) + (4\frac{1}{2}\chi)(3x-y) \\
& (3x-y) \\
& (2x+y) \\
& (2x+y) \\
& (3x-y) \\
& (3x-$$

6, XX = 1 - 51 = 605 Y tay 6 , x = - = - = - = - = - = A 54 = -64-1 The Tax - cos h - zinkh 11, 1 Cos X = X2 +x2 글 cos x - Y sin y = 2x +2y+ 상 y IN COS X - EXY = Zx + 2x + y sin x

Ex (cosx-y) = 2xtzy + ysmx 545 5 45× 441.14

Y Sin 24 = X Cos 24

24 Sin 24 4 + 2 cos x) Y = Cos 24 - 2x 2x Sin (2y)

= 24 Sin 24 2y = cos 2y - 260s (2y) Y

24 Sin 24 + 2y sin 24

24 To Sin 2 + Sin 70 To + O

26.51 (x4)= 24-24

-3 = 1 + cos (xAy)

24 = 34 -3 cos (xtu)

24 = 3 - 3 1=72

$$27 \\ \chi^{2} + yy + y' = 3$$

$$2x + y + xy' + 2yy' = 0$$

$$-(2x + y) = 2y \cdot y' + x \cdot y^{2}$$

$$y' = -(2x + y)$$

$$2y + y$$

$$y'' = -(2x + y)$$

$$2y + y$$

$$y'' = -(2x + y)$$

$$y' = -(2x + y)$$

$$y'' = -(2x + y)$$

58 arccos (crosin (+)) = -1

58 - [arcsin(+)]² - 51-4²