(20.04.20) 17.1.65 y=y(x); y'= y'a (y2)'= 24. y' 23 - y3 = sin(x-2y) y'-! $(2^3 \cdot y^3)_2 = (5in(2-2y))_2$ (23) = - (83) = cos(2-24)(x-24) = 322 - 342 y' = cos(x-24)(1-24') 3y2 8 - 2y cos(2-2y)= cos(2-2y)-32 $y'(3y^{2} + 2\cos(x-2y)) = \cos(\alpha-2y) - 3\alpha^{2}$ $y'' = \frac{\cos(\alpha-2y) - 3\alpha^{2}}{3y^{2} + 2\cos(x-2y)}$ NJ. 1.72 $x = 2\cos t$ $y = 3\sin t$ y'(x) - 2 $y'(x) = \frac{y'(t)}{x'(t)} = \frac{3\sin t}{(2\cos t)t} = \frac{3\cos t}{-2\sin t} = -\frac{3}{2}\cot yt$ N7.1.83 1) 5(a) = sin 3 a 5"(a) = ? $f'(z) = \cos(3a) \cdot (3x)' = 3\cos(3a)$ $f'(\alpha) = (3\cos(3\alpha))' = -3\sin(3\alpha) \cdot (3\alpha)' = -9\sin(3\alpha)$ $f''(\alpha) = (-9\sin(3z))' = -9\cos(3\alpha) \cdot (3\alpha)' = -27\cos(3\alpha)$ 2) 2=t2 x=t3 x'ax=?

 $\frac{8^{2}}{6^{2}} = \frac{8^{2}}{(26)^{3}} = \frac{(6^{2})^{2}}{((63)^{2})^{2}} - \frac{(6^{2})^{2}}{((63)^{2})^{2}} = \frac{26 \cdot 66 - 36^{2}}{(26)^{3}} = \frac{(6^{2})^{2}}{(66)^{2}} = \frac{66^{2}}{36^{3}} = \frac{36^{2}}{16^{3}} = \frac{3}{16^{3}} = \frac{3}{16^{3$