My Website: bit. by / Adams bean

- Turried + Q2.

1.a.
$$\frac{1}{10}$$
 by $\frac{1}{10}$ cos + $\frac{1}{100}$ co

$$\begin{cases} f(-3) = 0, \ f(0) = 3, \ f(2) = 1, \ f(3) = 0 \end{cases}$$

$$\begin{cases} f(-3) = 0, \ f(0) = f'(2) = 0, \ f(2) = 0, \ f$$

= < 4 , 1 , 3 > 8. Airplane heading due North 800 km/h. Wind blowing east at lookm/h. $p\overline{V}g = p\overline{V}w + w\overline{V}g$ 800 proguis $|p\vec{V}_{g}| = \sqrt{|p\vec{V}_{\omega}|^{2} + |\vec{V}_{g}|^{2}}$ $= \sqrt{800^2 + 100^2}$ ~ 806.23 km/hr. 0 = tan (800) = ... relative to positive y-axis (CW) \$\phi = 90 - 0 = relative to positive x-axis. (CCN.)

$$f(x) = (Sin x)^{-1}$$

$$k(x) = x^{-1}$$

$$f(x) = h(g(x))$$

 $f'(x) = h'(g(x)) \cdot g'(x)$

$$\frac{df}{dx} = \frac{d((sinx)^{-1})}{d(sinx)} \cdot \frac{d(sinx)}{dx}$$

$$= -(sinx)^{-2} \cdot (cosx)$$

$$\frac{dx^2}{dx} = 2x \qquad \frac{dx^{-1}}{dx} = -x^{-2}$$

$$\frac{d((x^2+9)^2)}{d(x^2+9)} = 2(x^2+9)^1$$