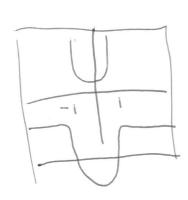
$$\frac{dV}{dt} = \frac{4}{3}\pi(3r^2)\frac{dr}{dt}$$

$$-10 = \frac{4}{3}\pi(3(20)^2)\frac{dr}{dt}$$

Qz a



$$\frac{1+x^2}{1-x^2}$$



$$h=2cn$$
 $V=\frac{1}{3}\pi r^{2}h$

$$V=\frac{1}{3}\pi h^3=\frac{\pi h^3}{3}$$

$$\frac{dV}{dt} = \frac{77}{3} \frac{d}{dt} \left[h(t)^3 \right]$$

$$\frac{dv}{dt} = \frac{71}{3} \cdot 3h^2 \cdot \frac{dh}{dt}$$

 $Q_5 = \int_0^1 \frac{\times d\times}{\sqrt{1+3}x^2}$

5 1 1 du

Si du du

1 6 9 - va du

16 5 4 u- 2 du

なんなしれるこれをうり、

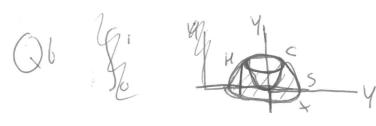
13

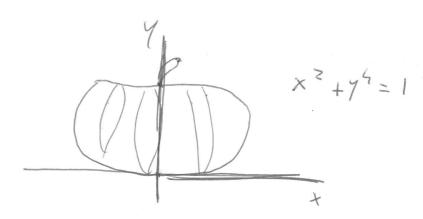
K. CIGHTAL

∫ 4. e r(+-€) dt

cherest rate at end of year daily deposit times interest rate at end of year, discourted by time 1-t.

 Q_5





$$N = f(x)$$

 $S = (2\pi) f(x) = 2\pi x \sqrt{-x^2 + 1}$