

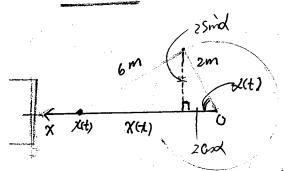
$$a(t) = \frac{9m/\varsigma^{2}}{x(t)} = \frac{1}{2}at^{2} = \frac{1}{2} \times 8 \times t^{2} = 4t^{2}$$

$$\theta(t) = \arctan \frac{x(t)}{400} = \arctan \frac{4t^{2}}{400} = \arctan \frac{t^{2}}{100}$$

$$\theta(t) = \frac{1}{1 + \frac{14}{100^{2}}} \cdot \frac{2t}{100} = \frac{100 \times 2t}{100^{2} + t^{4}}$$

$$\theta'(t) = \frac{1}{1 + \frac{14}{100^{2}}} \cdot \frac{2t}{100} = \frac{100 \times 2 \times 10}{2 \times 100^{2}} = \frac{1}{10}.$$

P.S.5.6



$$\chi(t) = 2 \text{God} + \sqrt{36 - (2 \text{Smd})^2} = 2 \text{Good} + \sqrt{36 - 4 \text{Smd}}$$

$$\frac{dx}{dt} = 2 \cdot (-\text{Smd}) \cdot \frac{dd}{dt} + \frac{-8 \text{Smd} \cdot \text{God}}{2 \sqrt{36 - 4 \text{Smd}}} \cdot \frac{dd}{dt}$$

$$\frac{dx}{dt} = 4 \times 27 = 87$$

注:
$$\frac{d\lambda}{dt} = 4 \times 2\pi = 8\pi$$

$$3 \times = \frac{\pi}{2}$$

$$\frac{dx}{dt} \Big|_{x=\frac{\pi}{2}} = -2 \times 8\pi + 0 \times 8\pi = 16\pi$$
"一"表示、加大、移立か、よ メタわかのすり欠。