$$\left(\frac{2}{x^{2}}+1\right)$$
 $\frac{4}{x^{3}}$ $+\frac{2}{x^{3}}$ $+\frac{2}{x^{3}}$ +1

1.
$$A(x) = 60$$

$$\int_{0}^{3} (1000 \, g \cdot 60 \, (3-9)) \, dy$$

2.
$$(3g(6-y))dy$$
 P= 3

3.
$$f(x) = \frac{1}{6}(x^2 + 4)^{\frac{3}{2}}$$
 $f'(x) = \frac{1}{4}(x^2 + 4)^{\frac{1}{2}}$ • $2x$

$$= \frac{x}{2} \sqrt{\chi^{2} + 4}$$

A.
$$\int_{0}^{3} \frac{1+x^{4}+x^{2}}{4} dx = \int_{0}^{3} \frac{x^{4}+x^{2}+1}{4} dx$$

$$= \int_{0}^{3} \sqrt{(\frac{\chi^{2}}{2} + 1)^{2}} d\chi = \int_{0}^{3} (\frac{1}{2} \frac{\chi^{2}}{2} + 1) d\chi \qquad \frac{1}{27}$$

B.
$$\frac{1}{2}$$
 + $\frac{1}{6}$ = $\frac{45}{6}$

Gorin Molay f(x) = tanx $f'(x) = sec^2 x$ $f'(x)^2 = sec^4 x$ at tanx. VI+ Sec x dx