









$$P = 2\pi \left[n^2 + 64 + 6^2 \right]^2 - \left[256(64 + 6^2) \right]$$

$$= 2\pi \left(\left(x^{2} + 64 + 6^{2} \right)^{2} - \left(16384 + 2566^{2} \right) \right)$$

$$= 2(n^{2}+64+6^{2})^{2}-2(16384+2566)+8n^{2}$$

$$= 2\left((n^2 + 64 + 6^2)^2 - 16384 - 2566^2 + 4n^2\right)$$

$$= 2\left(n^{4} + 2(64 + 6) + (64 + 6)^{2} - 16384 - 2566^{2} + 4n^{2}\right)$$

$$\int_{10}^{10} = \left(x^{4} + 128 + 26^{2} + 4096 + 1286^{2} + 6^{4} - 16384 - 2566^{2} + 4n^{2} \right)$$

$$x^{4} - 1266^{2} + 4n^{2} - 12189 = 0$$

$$\sqrt{2/\chi^2+4} = \sqrt{12160+1266^2}$$



When 9 15

 $P = 2\pi \left(\left(n^{2} + 64 + 6^{2} \right)^{2} - \left(16\sqrt{64+6^{2}} \right)^{2} \right)$ $= 2\pi \left(x^{4} + 2(64+6^{2}) + 5^{4} - 16^{2} \left(64+6^{2} \right) \right)$ $= 2\pi^{5} + 4\pi \left(64+6^{2} \right) + 6^{4} - 16384 - 2566^{2}$

 $\frac{dP}{dr} = 10x^{4} + 256 + 46^{2} = 0$ $x^{4} = \frac{-46^{2} - 256}{10}$

but b = 16

1- n + = 128

X

(M) As Hero sails left to right the

brightness moreover to a markenm at x=0, then from XXX, the brightness

decreases at the same rate that it

Mitially increased.

at x=0, del 0 i Max brightness at x=0

Concave down curve.