

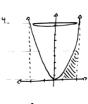
$$\int_0^1 2\pi \chi \cdot \left( (4\chi - \chi^2) - \chi \right) d\chi$$

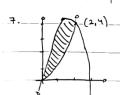
$$= 2\pi \int_0^3 \chi \left( 3\chi - \chi^2 \right) d\chi$$

winner

$$= 2\pi \left[ \frac{x^3 - \frac{1}{4}x^4}{3} \right]_0^3$$

$$= 2\pi \left( \frac{2\lambda}{4} \right) = \sqrt{\frac{2\lambda\eta}{2}}$$





BOX BOX

 $=2\pi\left[\frac{1}{5}x^{5}\right]^{2}$ 

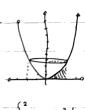
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5 2πx·((6x-2x2)-x2) dx

## 4000



 $= 2\pi \int_{0}^{2} x \cdot (6x - 3x^{2}) dx$   $= 6\pi \int_{0}^{2} \left(2x^{2} - x^{3}\right) dx$   $= 6\pi \left[\frac{2}{3}x^{3} - \frac{1}{4}x^{4}\right]_{0}^{2}$   $= 6\pi \left(\frac{4}{3}\right)$ 

 $= 2\pi \int_{0}^{2} x^{3} dx$ 

, 2" [ 1 4 4 ]

= 211 (4)

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