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اشكان شكيا

$$\chi(t) = Y \cos t \Rightarrow dx = -Y \sin t \cdot dt$$

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$$W = \int (x' - x + y') dx + (f'xy - ye') dy$$

$$\rightarrow W_{i} = \int_{0}^{\pi} -\Lambda \cos^{2}t \cdot \sin t \cdot dt = \frac{\Lambda}{P} \cos^{2}t \Big|_{0}^{\pi} = -\frac{\Lambda}{P} - \frac{\Lambda}{P} = -\frac{17}{P}$$

$$\Rightarrow W_{r} = \int_{0}^{\pi} |f_{cost}(s)| dt = \int_{0}^{\pi} |f_{sin}|^{r} |f_{sin}|^{r} dt = -|f_{cos}|^{r} |f_{sin}|^{r} dt = -|f_{cos}|^{r} |f_{sin}|^{r} |f_{sin}|$$

$$= -\Delta 4 \int_{0}^{\pi} (1-\cos^{2}t) \cos^{2}t \cdot \sin t \cdot dt = -\Delta 4 \int_{0}^{\pi} (\cos^{2}t - \cos^{2}t) \sin t \cdot dt$$

$$= \Delta^{4} \left( \frac{\cos^{2}t}{r} - \frac{\cos^{2}t}{\Delta} \right) \Big|_{0}^{7} = \Delta^{4} \left( \frac{1}{r} + \frac{1}{\Delta} - \frac{1}{r} + \frac{1}{\Delta} \right) = \frac{-177}{1\Delta}$$

$$\Rightarrow$$
  $W_r = \int_{0}^{\pi} d4 \cos t \cdot \sin t \cdot \cos t \cdot dt = d4 \int_{0}^{\pi} \cos t \left( r \sin t \cdot \cos t \right)$ 

$$(Yos't-1)dt = IIY \int_{0}^{\pi} (Yos't-cos't) sint.dt$$

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