

(9 y=x3 egrisi ve y=x doprusu arosinda kalan bolpenin alanını bul. d=x x3=x = x(x2-1)=0, x=0, x=7 Torch alon = $\int_{-1}^{0.3} (x-x^3) dx$ $=\frac{\lambda^{4}}{3}-\frac{x^{2}}{2} + \frac{x^{2}}{2}-\frac{\lambda^{4}}{4}$ $=-\left(\frac{1}{4}-\frac{1}{2}\right)+\frac{1}{2}-\frac{1}{4}=\frac{1}{2}-\frac{1}{4}+\frac{1}{2}-\frac{1}{4}$ $\int \frac{\arctan x}{x^{2}(1+x^{2})} dx = \arctan x$ $= 1 - \frac{1}{2} = \frac{1}{2}$ $= \frac{1}{2} - \frac{1}{2} = \frac{1}{2}$ $= \int \frac{1}{x^{2}(1+x^{2})} dx = \int \frac{1}{x^{2}(1+x^{2})} dx = \int \frac{1}{x^{2}(1+x^{2})} dx$ = $\arctan \left(-\frac{1}{x} - \arctan x\right) - \left(-\frac{1}{x} - \arctan x\right) \frac{1}{1} dx$ = - arcterx (x + arcterx) +) x (1+x2) dx + (arcterx dx 3 = A + J(- x)dx + 1 (orctenx)2 + C = A + ln(x) - 1 en (1+x2) + 1 (orctenx) 2 + C (7) j=1x-11 in grafipi ile y=(x-1)2 egrisi excondateoler alon bulunus Torol. alon = $\int_{0}^{(1-x)^{-1}} (x-1)^{2} dx + \int_{0}^{2} (x-1)^{2} dx$

$$\frac{x^{2}dx}{\sqrt{4x-x^{2}}} = \frac{2}{2} \quad 4x-x^{2} = -(x^{2}-4x) = -((x-2)^{2}-4) = 4-(x-2)^{2} \\
+ = x-2 \quad 2dx = 2d + \int \frac{x^{2}dx}{\sqrt{4x-x^{2}}} = \int \frac{(4x^{2})^{2}}{\sqrt{4x-x^{2}}} dx + 2 = 2 \sin \theta$$

$$\frac{denusum}{\sqrt{4x-x^{2}}} = \int \frac{1}{\sqrt{4x-x^{2}}} dx + \int$$

$$\int_{1}^{+\infty} \frac{dnx}{x^{3}} dx = 0$$

$$\int_{1$$