Qu) B danet 76) A about y-onis 1 B $V = \sqrt{\frac{2}{x^2}} \int_{-\infty}^{\infty} (x - x^2)^2 dx$ i rodule along un exis parellel o ble exist revolution 3/1 $V = \pi \int_{-\infty}^{\infty} (x - x^{ij})^2 dx$

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b) We will independe with respect

codies

codies $V = 2\pi \int_{0}^{b} x^{redivs} dx - height$ where fix) is the height fleture height is 1-(x)=1were height is 1-(x)=1 1-(x)=1 1-(x)=1 1-(x)=1 1-(x)=1 1-(x)=1then $V = 2\pi \int_{0}^{1} X \left(1 - x + x^{2} \right) dx$ 1

 $| V = 2\pi \int_{0}^{1} (3-x)(x-x^{4}) dx$

B whout $y = 3^{\text{washer}}$ A whout x = |shell| $\frac{1}{R} = 3$ $R = 3 - (x - x^{4})$ $V = \pi \int_{0}^{1} 9 - (3 - (x - x^{4}))^{2} dx$ $h = 1 - (x - x^4)$ $V = 2\pi \int_{0}^{1} \left(1 - \left(x - x^{4}\right)\right) \left(1 - x\right) dx$