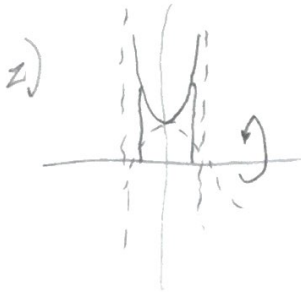
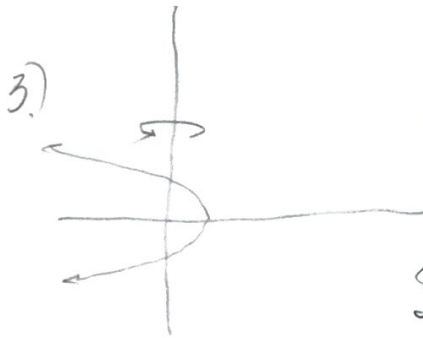


$$D: \int_{-3}^3 \pi (\sqrt{9-x^2})^2 dx$$

$$S: 2\pi \int_0^3 y (2\sqrt{9-y^2}) dy$$

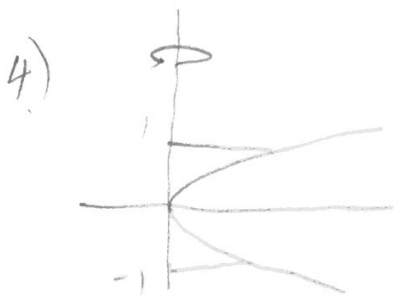


$$D: \pi \int_{-\pi/4}^{\pi/4} (\sec x)^2 dx$$

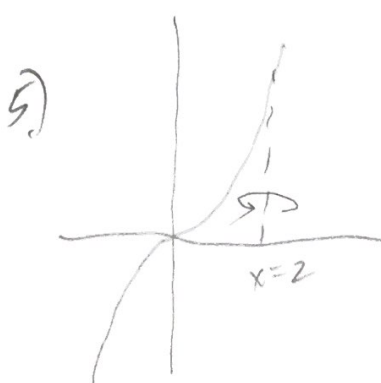


$$D: \pi \int_{-1}^1 (1-y^2)^2 dy$$

$$S: 2\pi \int_0^1 x (2\sqrt{1-x}) dx$$

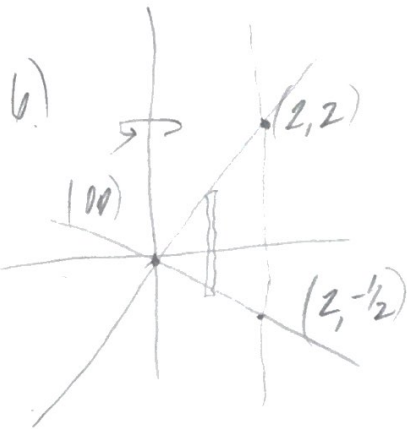


$$D: \pi \int_{-1}^1 (\sqrt{5-y^2})^2 dy$$



$$D: \pi \int_0^8 (2-\sqrt[3]{y})^2 dy$$

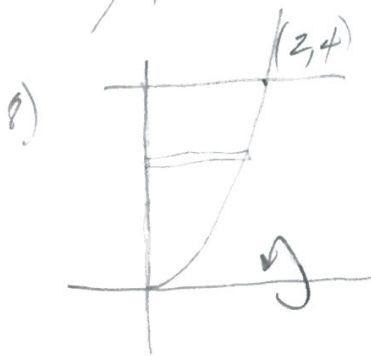
$$S: 2\pi \int_0^2 x^3 (2-x) dx$$



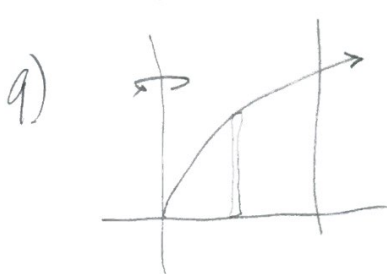
$$S: 2\pi \int_0^2 x \left( x - \left( \frac{-x}{2} \right) \right) dx$$



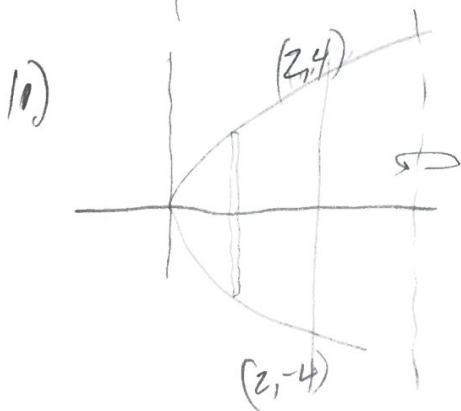
$$S: 2\pi \int_0^1 x (\sqrt{x} - (2x-1)) dx$$



$$S: 2\pi \int_0^4 y (\sqrt{y}) dy$$



$$S: 2\pi \int_0^4 x (2\sqrt{x}) dx$$



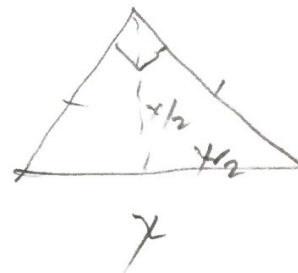
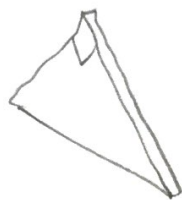
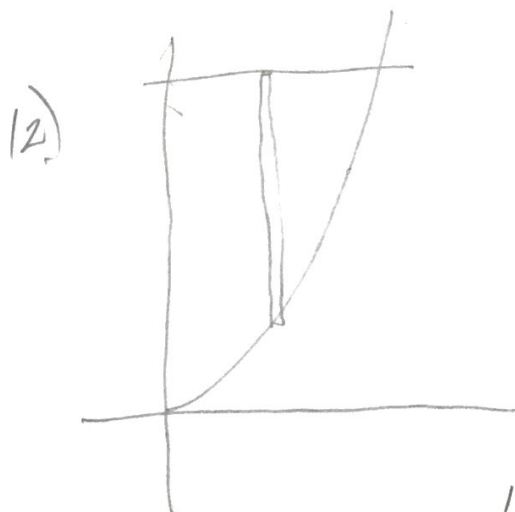
$$S: 2\pi \int_0^2 (4-x) (2\sqrt{8x}) dx$$

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KEY



$$\int_{-4}^4 (\sqrt{16-x^2})^2 dx$$



$$\frac{1}{2} \int_0^2 (4-x^2) \left( \frac{4-x^2}{2} \right) dx$$