$$\int_{-7}^{7} = \begin{bmatrix} 7 \end{bmatrix}^{7} \longrightarrow 1$$

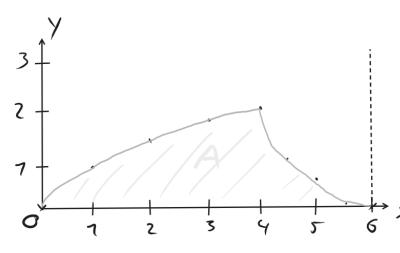
b) 
$$\int_{-\pi}^{\pi} \left\{ -\cos(x) \right\}_{-\pi}^{\pi} \longrightarrow 0$$

c) 
$$\int_{C(x)}^{\pi} = \left[4\sin(x)\right]_{0}^{\pi} - > 0$$

d) 
$$\int_{\sigma(x)}^{\pi} = \left[-3\cos(x) + 5\sin(x)\right]_{\sigma}^{\pi} = \left[-3\cos(x)\right]_{\sigma}^{\pi} - 3\cos(x)$$

e) 
$$\int_{f(x)}^{2} = \left(e^{x}\right)_{1}^{2} = e^{2} - e^{1} - 54.67$$

$$f \int_{e^{(x)}}^{7} = \left(e^{t} + 2\right)_{c}^{7} -> 1.72$$



$$A = A_7 + A_2$$

$$A_7 = \left[\frac{2}{3} \times 1.5\right]_c^4$$

$$=5\frac{1}{3}$$

$$= 5\frac{1}{3}$$

$$A_{2} = \left[\frac{1}{6} \times^{3} - 3 \times^{2} + 18 \times\right]_{4}^{6}$$

$$= 7\frac{1}{3}$$

$$=7\frac{7}{3}$$

$$A = 6\frac{3}{3}$$

$$\int f(x) = [e^{y} - y^{3}]_{b}^{a} = e^{a} - a^{3} - e^{b} + b^{3}$$

$$f(x) = [e' - y']_{b} = e - a' - e + b$$

$$f(x) = x^{2} \cdot \sqrt{x} \cdot \frac{1}{\sqrt[3]{5}} = x^{2} \cdot \sqrt{x} \cdot x^{-\frac{5}{3}} \quad \left( (\sqrt[3]{5})^{-1} = (x^{5})^{-\frac{1}{3}} = x^{-\frac{5}{3}} \right)$$

$$= \times^{2} \cdot \times^{\frac{1}{2}} \cdot \times^{-\frac{5}{3}} = \lambda^{\frac{5}{6}}$$

$$\int f(x) = \left[\frac{6}{11} \cdot x^{\frac{11}{6}}\right]_{6}^{a} = \frac{6}{11} \cdot a^{\frac{71}{6}} - \frac{6}{11} \cdot b^{\frac{77}{6}}$$

C) 
$$\lim_{x \to \infty} \int_{-1}^{\infty} |x|^{-2} dx = \infty$$