```
4: [P,6] → IR" & C invettire [e,6]
     L(e) = S 11 e loll at 4 e c cobj
      \mathcal{L}(e) = \sup_{\mathcal{P}} \mathcal{L}(e)
                                                            e(b) [14th - 4th ] - 200)
         F: [o,b] > R"
                                                                   f: [a,b) \rightarrow \mathbb{R}
\left| \int_{a}^{b} f(t) dt \right| \leq \int_{a}^{b} |f(t)| dt
       || \( \sum_{\pi} \frac{b}{4} \| \le \sum_{\pi} \frac{b}{1} \frac{2}{1} \taken \|
       ||\int_{0}^{\infty} \xi_{A}|| \leq \int_{0}^{\infty} ||\xi|| dt
||\xi|| = \int_{0}^{\infty} ||\xi|| dt
||\xi|| = \int_{0}^{\infty} ||\xi|| dt
||\xi|| = \int_{0}^{\infty} ||\xi|| dt
   ne R<sup>n</sup>
        2\int_{0}^{b} \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{2} = \sum_{i=1}^{n} \left( \int_{0}^{b} \ell_{i}(t) dt \right) u_{i} = \sum_{i=1}^{n} \int_{0}^{b} \ell_{i}(t) u_{i} dt = \int_{0}^{b} 2\ell(t) u_{i}
= बर्मा है। है। से
                             u = \int f dt
       (< \f , \f \) | < | \f \\ | \f \\ | \f \\ |
            re clab]
                                            4 (e,c) & C
                                    وا<sub>لديما</sub>, و دو
         5 he'n + ( he'n + ( he'n) (4,6) € €
                                   t for \( \frac{1}{t} \) = \( \frac{1}{t} \)
                                          \varphi(t) = (t, f(t)) \quad t \in \mathcal{D}, \frac{2}{\pi}
       4 € C1 ] = 2 7 (e) (a) N.F. 2(e) = 5 16 HI)
```

$$\int_{0}^{\infty} \sqrt{1 + t^{2}} dt \qquad t = \sinh x$$

$$\int_{0}^{\infty} \operatorname{ceth} nillb) \qquad \operatorname{seth} nih(x) = k \left(x + \sqrt{1 + x^{2}} \right)$$

$$\int_{0}^{\infty} \operatorname{ceth} nih(x) = k \left(x + \sqrt{1 + x^{2}} \right)$$

$$0 = F(x, n) = (y^{2} - 3x^{2} - x^{3})((x+2)^{2} + y^{2}) - 3 \le x \le 1$$

$$f \qquad g$$

$$f = 0$$

$$f = 0$$

$$5^{2} = 3x^{2} + x^{3}$$

$$5^{2} = \pm \sqrt{3x^{2} + x^{3}} = \pm |x| \sqrt{x + 3}$$

$$\nabla f = (-6 \times -1 \times^{2}, 24) = (0,0)$$
 PT CRATICI
$$(3 \times (-2 \times -1), 24)$$

$$S'(x) = -\frac{3}{4} \frac{4+x}{\sqrt{x+3}^2} = -x\sqrt{x+3}$$

$$S'(x) = -\frac{3}{4} \frac{4+x}{\sqrt{x+3}^2} < 0$$

$$0 < x < 1$$

$$\int_{0}^{1} (x) - |x| \sqrt{x+3} = x \sqrt{x+3} \qquad y' > 0 \qquad x > 0$$

$$\int_{0}^{1} \frac{1}{4} \frac{1}{$$

