2) a) Titile elastion 
$$f(x) = -2y^3 + 3x^2$$
  $p = de \left[-\frac{1}{2}, 2\right]$ 

"  $f'(x) : -6x^2 + 6x$ 

\* Eith elastion

 $-6x^2 + 6x = 0$ 
 $X = | \sqrt{x} = 0$ 
 $f(0) = 0$ 
 $f(0) = 0$ 
 $f(1) = | \int_{f(1)}^{f(1)} f(2) = -4$ 

maximum

b) T. Elastion  $f(x) = x^{2/3}$  rad a  $[-1,2]$ 
 $f'(x) = \frac{2}{2} \times \frac{1}{3}$ 

"T. Elastion

 $f'(x) = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ 

"T. Elastion

 $f'(x) = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ 
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 $f'(x) = \frac{1}{2} \times \frac{$ 

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b.) 
$$\int 3t^{2}\sqrt{2t^{2}-1} \, dx$$

\* Tidak ada Solusi Karna  $dx$ 

\* Ji Hu  $dt$ 

$$\int 3t^{2}\sqrt{2t^{2}-1} \, dt$$

=  $3\int \sqrt[3]{u} \, dy$ 

=  $\frac{3}{4}\int u^{\frac{1}{3}} = \frac{3}{4}\cdot \frac{3}{4}u^{\frac{4}{3}}$ 

=  $\frac{9}{16}\sqrt[3]{(2t^{2}-1)^{4}} + C$ 

(5) 0.) 
$$y = x+6$$
,  $y = x^3$ ,  $2y + x$ 

$$\begin{bmatrix} (2/8) & (0/0) & (-4/2) \\ -7 & + 4 & + \frac{x}{2} \\ -4 & -4 \end{bmatrix} = 87$$

b.) 
$$y = \sqrt{x}$$
, sumbuy,  $y = 0$ ,  $y = 1$ 

$$\int_{0}^{1} \sqrt{x} dx$$

$$= \left[\frac{2}{3}x^{\frac{3}{2}}\right]_{0}^{1}$$

$$= \frac{2}{3}/\sqrt{\frac{3}{2}}$$