

$$y = \frac{e^{x} + e^{-x}}{2} = \frac{1}{2} \left(e^{x} + e^{-x} \right)$$

$$y'=\frac{1}{2}(e^{X}-e^{-X})$$

CRITICAL VALUES -> $y'=0$ or due
 $\frac{1}{2}(e^{X}-e^{-X})=0$

The derivative

g oes from negative

to positive e x = 0.

: y = ex + ex has

$$y = \frac{1}{2}(e^{\circ} + e^{\circ})$$
 Relative Minimum is $y = 1$ (ocated (0,1).

$$y' = \frac{1}{2}(e^{x} - e^{-x})$$

$$y'' = \frac{1}{2}(e^{x} + e^{-x})$$

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$$y'' = \frac{1}{2}(e^{x} - e^{-x})$$

$$e^{x} = -e^{-x} \text{ never } = 0 \quad \text{i. No position } e^{x}$$

$$y'' = \frac{1}{2}(e^{x} - e^{-x})$$

- 1 Write the answer to #49 p.322
- 2 Use prop of logs to rewrite $y = ln(x \sqrt[3]{x-2})$