

2.4c

Precalc.

$$\log_b(xy) = \log_b x + \log_b y.$$

$$\log_b(x/y) = \log_b x - \log_b y.$$

$$\log_b(x^n) = n \log_b x.$$

$$\log_b x = \log_a x / \log_a b.$$

$$\left\{ \log_b x = \frac{\ln x}{\ln b} \right.$$

$$e^{\ln x} = x$$

$$e^{\ln(a) \cdot x} = a^x$$

$$f(x) = \ln\left(\frac{2x}{x+3}\right) = \ln 2x - \ln(x+3)$$

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$$y = \frac{-\sqrt{x^2+1}}{x} + \ln(x + \sqrt{x^2+1})$$

check out P. 167 Summary...