$$\beta(0) = 0 \qquad \beta(a) \to \infty$$

$$\frac{1}{a} \ln \left| \frac{y_0 - a}{a + y_0} \right| = \frac{1}{a} \ln \left(1 - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{4a^2}{2(a + y_0)^2} + \frac{-9a^3}{3(a + y_0)^3} - \cdots \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{2a}{a + y_0} - \frac{2a}{a + y_0} \right) = \frac{1}{a} \left(\frac{$$

$$\approx \frac{-2}{a+y_0}$$

$$B(y_0) \approx \frac{-M_0 I_c}{2\pi (a+y_0)}$$

b)
$$\frac{2}{2} = \frac{1}{1} \frac{dx}{dx}$$
 $\frac{2}{x} = \cos \theta$
 $A = \frac{1}{2} \sin \theta$
 $A = \frac{1}{2} \cos \theta$

$$B = \frac{M_0 I}{4 \sqrt{1} a} \left[-7 + \tan \theta \right]$$

$$- \arctan \left(\frac{a}{2} \right)$$

$$=\frac{-M_0I}{2JIa}\arctan\left(\frac{a}{2}\right)=\frac{-M_0I}{2JIa}\left(\frac{a}{2}-\frac{a^3}{3z^3}+\frac{e^5}{5z^5}-\ldots\right)$$

dla 2>>a dla
$$a>> 2$$
 oratan $\left(\frac{a}{2}\right) \rightarrow \frac{JT}{2}$

$$\frac{-M_0I}{2\sqrt{1}}$$

$$\frac{-M_0I}{4\alpha}$$

$$\frac{-M_0I}{4\alpha}$$

Jak prosta, 2 gaulea

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