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

$$\frac{7}{a} \ln \left| \frac{y_0 - a}{a + y_0} \right| = \frac{1}{a} \ln \left(7 - \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{4a^2}{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($$

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

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

b)
$$\frac{2}{2} = \frac{1}{10} \times \frac{1}{10} = \frac{1}{10$$

$$B = \frac{M_0 I}{4 J I a} \left[-7 ; tand ; 0 \right] J d$$

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

$$=\frac{h_0I}{2\pi a}\arctan\left(\frac{a}{2}\right)=\frac{-h_0I}{2\pi a}\left(\frac{a}{2}-\frac{a^3}{3z^3}+\frac{e^5}{5z^5}-\ldots\right)$$

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

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