```
y'y"= y"
Sea t(x)=y'a) \rightarrow tt'=t'' \Leftrightarrow \int tt' dx = \int t'' dx \Leftrightarrow \int \frac{1}{2}t^2 + C_1 = t' \Leftrightarrow \frac{dt}{dx} = \frac{1}{2}t^2 + C_1 \Leftrightarrow \frac{dt}{dx} = \frac{dt}{dx} = \frac{1}{2}t^2 + C_1 \Leftrightarrow \frac{dt}
 \iff \frac{dt}{dx} = \frac{1}{2}(t^2 + C_2) \iff \int \frac{1}{\epsilon^2 + C_2} dt = \frac{1}{2} \int dx \implies 3 \cos C_2 < 0, C_2 = 0, C_2 > 0
  C2 = 0
        \int \frac{1}{t^2} dt = \frac{1}{2} \int dx \iff -\frac{1}{t} = \frac{1}{2}x + C_3 \iff \frac{1}{t} = -\frac{C_1 + x}{2} \iff t\alpha = \frac{-2}{(x + C_1)} \iff
        \Leftrightarrow \frac{dy}{dx} = \frac{-2}{x+C_1} \iff y = \int \frac{-2}{x+C_4} dx \iff y = -2\ln|x+C_4|+C_5
y = -2\ln|x+C_4|+C_5
y'' = \frac{2}{(x+c_1)^2} = \frac{2}{(x+c_1)^2}
y'' = -\frac{4}{(x+c_1)^2}
       • Si t^2 = 0 \Leftrightarrow t = 0 \Leftrightarrow y' = 0 \Leftrightarrow y = x + C_6
\boxed{\alpha = C_2 > 0} \quad \text{sea } \alpha \in \mathbb{R}: \alpha > 0
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\boxed{\Delta = C_2 > 0} \quad \text{s
                                                                                                                                                                                                        \Leftrightarrow \sqrt{\tan \left(\frac{\tan(x+c_0)}{z}\right)} = f(x) \iff \int dy = \sqrt{\tan \left(\frac{x\sqrt{\tan + c_0}}{z}\right)} dx = -2\ln|\cos\left(\frac{\sqrt{\tan (x+c_0)}}{z}\right)| + c_0 = y(x)
(a > 0)
         Sec2(x) - 1 = tan2(x)
Sec2(x) = tan2(x) +1
           S \cdot Sec^2(x) = S \cdot (tan^2(x) + 1)
             t = tatan(u) \Rightarrow u = arctan(ta) . Si t^2 + a = 0 \Rightarrow t^2 = -a sin sol. en IR
         dt = Va sec²(u) du
         b = C_2 < 0 sec b \in \mathbb{R}: b < 0 to b = -a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      \left(\frac{1}{\sqrt{a}}\right) ardanh \left(\frac{t}{\sqrt{a}}\right)
                  \int \frac{1}{t^2 + b} dt \iff y = -2 \ln \left| \cos \left( \frac{1 - a(x + C_6)}{z} \right) \right| + C_9 \implies \sin s_0 = n R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     dy = a (>) dy = adx (>) y = ax + C10
                                            sin t^2+b=0 \Leftrightarrow t^2-a=0 \Leftrightarrow t^2=a \Leftrightarrow t=\pm a \Leftrightarrow t=\pm a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      \frac{dy}{dx} = -\alpha \iff \int dy = -\int u dx \iff y = -\alpha x + C_{ii}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              y=a
y=0
y=0 -a.o=0
y=0
```