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$$\begin{aligned}
 & -\xi a x^r + b x + \frac{1}{r} c \quad \frac{b+c}{r} = a \Rightarrow r a = b+c \Rightarrow b = r a - c \\
 & \frac{1}{x_1 + x_2} = \frac{1}{s} = \frac{\xi a}{b} = \frac{\xi a}{r a - c} = \log \xi = r \log r \Rightarrow \log r = \frac{r a}{r a - c} \Rightarrow \log \frac{10}{r} = \frac{r a - c}{r a} \\
 & \Rightarrow 1 - \frac{c}{r a} = \log r^{10} \Rightarrow 1 - \log r^{10} = \frac{c}{r a} \Rightarrow r - \log r^{100} = \frac{c}{a} \\
 & \Rightarrow \left(\frac{1}{\sqrt[r]{r}} \right)^{\frac{c}{a}} = \left(\sqrt[r]{\frac{1}{r}} \right)^{\frac{c}{a}} = \left(r^{-\frac{1}{r}} \right)^{\frac{c}{a}} = \left(r^{\frac{c}{a}} \right)^{-\frac{1}{r}} = \left(r^{r - \log r^{100}} \right)^{-\frac{1}{r}} = \left(\frac{r^r}{r^{\log r^{100}}} \right)^{-\frac{1}{r}} = \left(\frac{\xi}{100} \right)^{-\frac{1}{r}} \\
 & = \left(\frac{100}{\xi} \right)^{\frac{1}{r}} = (r \omega)^{\frac{1}{r}} = \boxed{\sqrt[r]{\omega}}
 \end{aligned}$$

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