

$$\log(x-r) = t \rightarrow r + \log\left(\frac{1}{x-r}\right)^r - \log(x-r) = \dots \rightarrow \mu + \log(x-r)^{-r} - \log(x-r) = \dots$$

$$\rightarrow r + (-rt) - t = 0 \rightarrow -rt = -r - t = 1 \rightarrow \log_{10}^{r-x} = 1 \rightarrow r-x = 1$$

$$\rightarrow x = -1 \quad \log \sqrt[r]{r} = \log \frac{r}{r^{\frac{1}{r}}} = 4 \log \frac{r}{r} = 4$$

$$r^{x-r} = 1 \rightarrow x-r = rx \rightarrow x-r-xr=0 \rightarrow x-r-xr=0$$

$$x = r + \sqrt{4} \quad \checkmark$$

$$x = r - \sqrt{4} \quad \checkmark$$

$$\log_{\frac{r}{r}}^{x-r} = \log_{\frac{r}{r}}^{\sqrt{4}} = \frac{4}{r}$$

$$\log \frac{1}{11} = \frac{\log \frac{1}{r}}{\log \frac{1}{r}} = \frac{\mu \log \frac{1}{r}}{\log \frac{1}{r} + r \log \frac{1}{r}} = \frac{\mu \left(\frac{1}{r}\right)}{\frac{1}{r} + r} = \frac{1}{r} = \frac{1}{\sqrt{4}}$$

$$\log_{\frac{r}{r}}^{\mu} = 0.1 \rightarrow \frac{\log \frac{\mu}{r}}{\log \frac{r}{r}} = 0.1 \rightarrow \frac{1}{r} \frac{\log \mu}{\log r} = 0.1 \rightarrow \frac{\log \mu}{\log r} = 0.1r$$

$$\rightarrow \log \mu = 0.1r \log r$$

$$\log_{\frac{r}{r}}^4 = \frac{\log 4}{\log \frac{r}{r}} = \frac{\log r + \log \mu}{r \log r + \log \mu} = \frac{\log r + 1/4 \log r}{r \log r + 1/4 \log r} = \frac{5/4}{r + 1/4}$$

$$(ay^r) - a + by^r = 0 \rightarrow a(1 - \log y^r) = by^r$$

$$\rightarrow ay^a = by^r \rightarrow \frac{b}{a} = y^{\frac{a}{r}} \rightarrow (\sqrt{r}) y^{\frac{a}{r}} = \sqrt{a}$$