

$$\log_r (x^r + r x + r) + \log_r (x - r) = \mu \log_r \frac{x^r}{\sqrt{r}} \quad - 3$$

$$\log_r x^{\mu-1} = \mu \rightarrow x - 1 = 1 \rightarrow x = r\sqrt{r} \rightarrow \log_r \frac{r\sqrt{r}}{\sqrt{r}} = \mu \quad (4)$$

$$\log (r - x) - \log \frac{1}{(x - r)^r} = \mu \quad - 4$$

$$\log \frac{1}{(r - x)^r} = \log (r - x)^{-r} = -r \log (r - x)$$

$$\mu \log r^{-x} = \mu \rightarrow r - x = 1 \rightarrow x = r - 1 \quad \log_r^{-(-1)} = \mu \quad (4)$$

$$x^r - r = 1 \rightarrow x = r \quad \log_r x - r = \log_r \sqrt{4} = \frac{1}{r} \quad - 2$$

$$x^r - r = \epsilon x \rightarrow x^r = \epsilon x + \epsilon - 4 = 0 \rightarrow (x - r)^r = 4 \rightarrow x = r \pm \sqrt{4}$$

$$\log_r^r = \frac{\omega}{\Lambda} \quad \log_r^{\Lambda} = \frac{\mu \log r}{\log r + \mu \log r} = \frac{\mu(\omega \Lambda)}{\omega \Lambda + \mu(\Lambda \omega)} = \frac{10\omega \Lambda}{\omega \Lambda + \mu \Lambda \omega} = \frac{\omega}{\mu + 1} \quad (5)$$

$$\frac{\log_r^r}{\log_r^r} = \frac{\omega}{\Lambda} \rightarrow \log_r^r = \omega \Lambda$$

$$\log_r^{\mu} = -1 \quad \log_r^{\Lambda} = \frac{\log_r^r + \log_r^{\mu}}{\mu \log_r^r + \log_r^{\mu}} = \frac{\omega \Lambda + \Lambda \omega}{\mu \omega \Lambda + \Lambda \omega} = \frac{1\omega \Lambda}{\mu \omega \Lambda} = \frac{1}{\mu} \quad (6)$$

$$\frac{\log_r^r}{\mu \log_r^r} = \frac{\mu}{\omega} \rightarrow \frac{\log_r^{\mu}}{\log_r^r} = \frac{\Lambda}{\omega} \rightarrow \log_r^{\mu} = \Lambda \omega, \log_r^r = \omega \Lambda$$

$$(a \log_r) x^r + a x + b \log_r^r = (\sqrt{r})^{\frac{b}{a}} \quad - 10$$

$$x = -1 \rightarrow a \log_r - a + b \log_r^r = (a + b) \log_r^r = a \rightarrow \log_r^r = \frac{a}{a + b}$$

$$\frac{1}{\log_r^r} = \frac{a}{a + b} \rightarrow \log_r^r = \frac{a + b}{a} = 1 + \frac{b}{a} \rightarrow \log_r^r = \frac{b}{a} \rightarrow \frac{b}{a} = \log_r^r$$

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

$$(\sqrt{r}) \log_r^r = \omega \quad \log_r^r = \sqrt{\omega}$$

$$\log_r^r$$