1345. 
$$\lim_{x\to +0} x^{k/(1+\ln x)}$$
. 1346.  $\lim_{x\to 1} x^{1/(1-x)}$ .

1347. 
$$\lim_{x\to 1} (2-x)^{\log \pi x/2}$$
. 1348.  $\lim_{x\to \frac{\pi}{4}} (\lg x)^{\lg 2x}$ .

1349. 
$$\lim_{x\to 0} (\operatorname{ctg} x)^{\sin x}$$
. 1350.  $\lim_{x\to +0} \left(\ln \frac{1}{x}\right)^x$ .

1351. 
$$\lim_{x\to\infty} \left( \operatorname{tg} \frac{\pi x}{2x+1} \right)^{1/x}$$
. 1352.  $\lim_{x\to a} \left( \frac{\operatorname{tg} x}{\operatorname{tg} a} \right)^{\operatorname{ctg}(x-a)}$ .

1353. 
$$\lim_{x\to 0} \left(\frac{a^x-x \ln a}{b^x-x \ln b}\right)^{1/x^4}$$
. 1354.  $\lim_{x\to 0} \left(\frac{1}{x}-\frac{1}{e^x-1}\right)$ .

1355. 
$$\lim_{x\to 1} \left(\frac{1}{\ln x} - \frac{1}{x-1}\right)$$
. 1356.  $\lim_{x\to 0} \left(\operatorname{ctg} x - \frac{1}{x}\right)$ .

1357. 
$$\lim_{x\to 0} \left[ \frac{1}{\ln(x+\sqrt{1+x^2})} - \frac{1}{\ln(1+x)} \right].$$

1358. 
$$\lim_{x\to a} \frac{a^x - x^a}{x - a}$$
 (a > 0). 1359.  $\lim_{x\to 0} \frac{(1+x)^{1/x} - e}{x}$ .

1360. 
$$\lim_{x\to 0} \frac{(a+x)^x - a^x}{x^2}$$
 (a>0).

1361. 
$$\lim_{x \to +\infty} \left( \frac{2}{\pi} \arctan x \right)^x$$
. 1362.  $\lim_{x \to +\infty} (\ln x)^x$ .

1363. 
$$\lim_{x\to 0} \left(\frac{\arcsin x}{x}\right)^{1/x^a}$$
. 1363.1.  $\lim_{x\to 0} \left(\frac{\sin x}{x}\right)^{1/x^a}$ .

1363.2. 
$$\lim_{x\to 0} \left(\frac{\operatorname{tg} x}{x}\right)^{1/x^a}$$
 1363.3.  $\lim_{x\to 0} \left(\frac{\operatorname{arctg} x}{x}\right)^{1/x^a}$ .

1363.4. 
$$\lim_{x\to 0} \left(\frac{A \cosh x}{x}\right)^{1/x^2}$$
, reper Arch  $x=$ 

$$\ln(x+\sqrt{1+x^2}).$$

1364. 
$$\lim_{x\to 0} \left[ \frac{(1+x)^{1/x}}{e} \right]^{1/x}$$
. 1365.  $\lim_{x\to 0} \left( \frac{2}{\pi} \arccos x \right)^{1/x}$ .

1366. 
$$\lim_{x\to 0} \left(\frac{\cos x}{\cosh x}\right)^{1/x^4}$$
. 1367.  $\lim_{x\to 0} \frac{\ln \cosh x}{\sqrt[m]{\cosh x} - \sqrt[n]{\cosh x}}$ .

1368. 
$$\lim_{x\to 0} \left(\frac{1+e^x}{2}\right)^{\coth x}$$
. 1368.1.  $\lim_{x_y\to \infty} \frac{x^{\ln x}}{(\ln x)^x}$ .

1369. 
$$\lim_{x \to +\infty} \left[ \sqrt[3]{x^2 + x^2 + x + 1} - \sqrt{x^2 + x + 1} \cdot \frac{\ln(e^x + x)}{x} \right]$$
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