(1361)
$$\lim_{x\to\infty} (e^{x} - x)^{\frac{1}{x}} = \lim_{x\to\infty} (\infty + e^{\alpha x})^{\frac{1}{x}} = \lim_{x\to\infty} (\infty^{0} + e^{\alpha x})^{\frac{1}{x}} = \lim_{x\to\infty} (\infty^{0} + e^{\alpha x})^{\frac{1}{x}} = \lim_{x\to\infty} e^{\frac{\ln((\infty^{1}+1)e^{x})}{x}}$$

$$\lim_{x\to\infty} e^{\frac{\ln((\infty^{1}+1)+1)e^{x}}{x}}$$

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Ombern: e.

Dokazamo, runo nuture
$$y = \sqrt[3]{x^3 + 3x^2}$$
 e $y = \frac{x^2}{x - 1}$ accummomwieckie houonissicatomica gpyr k gpyry nou $x \to \pm \infty$.

$$y = \sqrt[3]{x^3 + 3x^2}$$

beckopertions pazpuba he cyuseambyem

 $\lim_{x\to\pm\infty} \sqrt[3]{x^3+3x^2} = \pm\infty$

$$k = \lim_{x \to \pm \infty} \frac{f(x)}{x} = \lim_{x \to \pm \infty} \frac{\sqrt[3]{x^3 + 3x^2}}{x} = 1$$

$$b = \lim_{x \to \pm \infty} (\sqrt[3]{x^3 - 3x^2} - x) = 1$$

$$y = kx + b = x + 1$$

$$y = \frac{x^2}{x-1}$$

Torka seckoherhoro pazpuba: X=1

lim X2 X-1±0 X-1 = ± ∞

$$k = \lim_{x \to +\infty} \left(\frac{x}{x-1} \right) = 1$$

$$b = \lim_{x \to \pm \infty} \left(\frac{x^2}{x - \pm} - x \right) = \pm$$

Т.к. прошиле совпадают, сиедовательно, стрешаться друг к другу.

4.T.g.