

$$\begin{aligned} \text{מתכוון ל- } & \frac{28}{3} - \text{ כאשר } \infty \pm \infty \\ x \rightarrow \pm \infty & e^{-\frac{28x+7}{3x+5}} \end{aligned}$$

$$f(x) = \left(\frac{3x-2}{3x+5}\right)^{4x+1} = \left(\frac{3x+5-7}{3x+5}\right)^{4x+1} = \left(1 + \frac{-7}{3x+5}\right)^{4x+1} = \left[\left(1 + \frac{-7}{3x+5}\right)^{\frac{3x+5}{-7}}\right]^{\frac{-7}{3x+5} \cdot (4x+1)} = \left[\left(1 + \frac{-7}{3x+5}\right)^{\frac{3x+5}{-7}}\right]^{28}$$

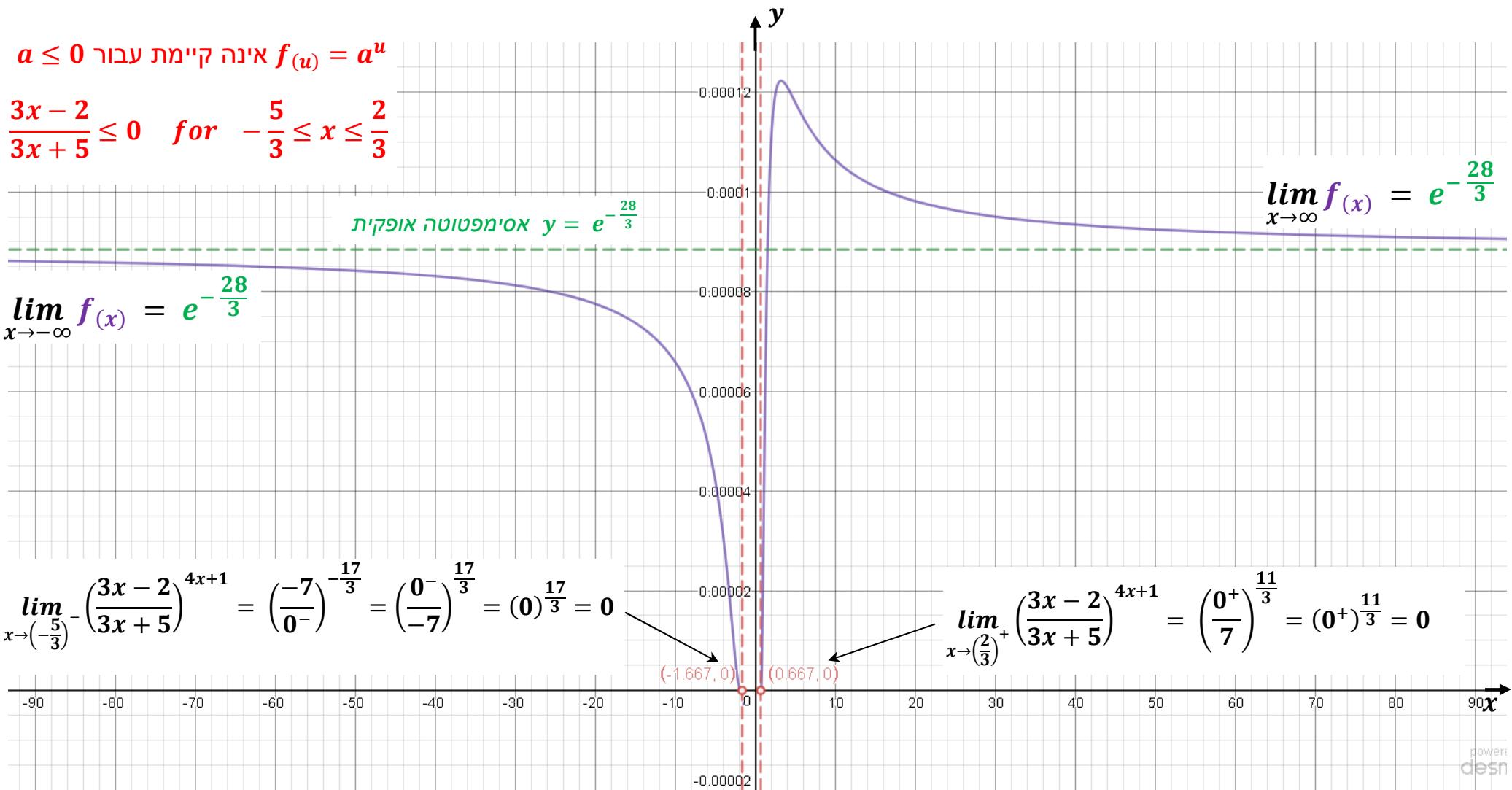
$- \frac{5}{3} \leq x \leq \frac{2}{3}$ אינה קיימת בתחום f

$a \leq 0$ אינה קיימת עבור a^u

$$\frac{3x-2}{3x+5} \leq 0 \quad \text{for} \quad -\frac{5}{3} \leq x \leq \frac{2}{3}$$

$$\lim_{x \rightarrow -\infty} f(x) = e^{-\frac{28}{3}}$$

$y = e^{-\frac{28}{3}}$ או ימפולטה אופקית



$$\lim_{x \rightarrow (-\frac{5}{3})^-} \left(\frac{3x-2}{3x+5}\right)^{4x+1} = \left(\frac{-7}{0^-}\right)^{\frac{17}{3}} = \left(\frac{0^-}{-7}\right)^{\frac{17}{3}} = (0)^{\frac{17}{3}} = 0$$

$(-1.667, 0)$

$(-0.667, 0)$

$$\lim_{x \rightarrow (\frac{2}{3})^+} \left(\frac{3x-2}{3x+5}\right)^{4x+1} = \left(\frac{0^+}{7}\right)^{\frac{11}{3}} = (0^+)^{\frac{11}{3}} = 0$$