Math 407 October 01, 2008

In trms of the equation $y = 2^{\times}$ explain why the "restrail tail" of graph appears to shift to the right by 10 every time the yrange is moltiplied by 1000

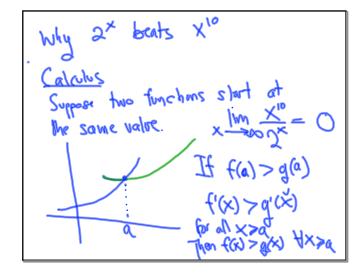
$$2^{10} \cong 1000$$

$$y \text{ in circusts by a fixebr of 1000}$$

$$2^{\times}2^{-10} = 2^{\times} \times 2^{\times}$$

$$y \text{ in circusts by a fixebr of 1000}$$

$$2^{\times}2^{-10} = 2^{\times} \times 2^{\times}$$



Use this idea to prove

2 brak × (ie 2× > X for all

x past a certain point)

To prove 2× > X¹⁰ for all x past

a certain point, keep taking derivative

of x¹⁰

10x¹, 10.9.8 x⁷.) | 01

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Idaa & algument
2× 10!x

(h2)⁸2× 10!x

(h2)¹⁰2× 10!

