

Dec. 7, 2012  
Sect. 6-3  
Special Bases

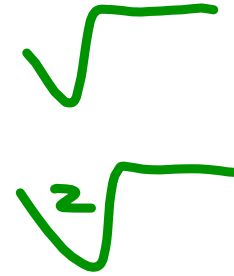
# Common Logs

Log base 10

$\log_{10}$

$\log 100$

Evaluate  $\log 100 = 2$



$$\log_2 8 = 3$$

$$\log_2 6 = ?$$

$$\log_{10} 100 = 2$$

$$\log_{10} 50$$

$$\boxed{\log} 50 \approx 1.699$$

# Natural Logs

$$\pi \approx 3.14159 \dots$$

$$e \approx 2.72$$

loge

ln 2

$$\boxed{\ln} 2 \approx 0.693$$

Exponential

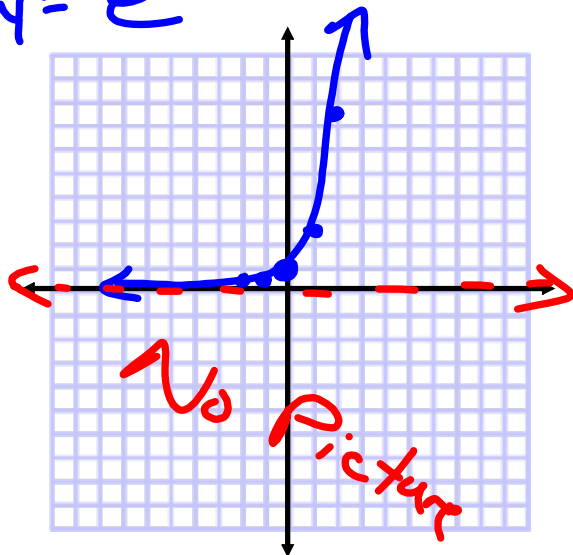
$$e^2 \approx 7.39$$

$$\boxed{\ln e^x}$$

$$\boxed{e^x}$$

## Graphs

$$y = e^x$$



$$y = \ln x$$

