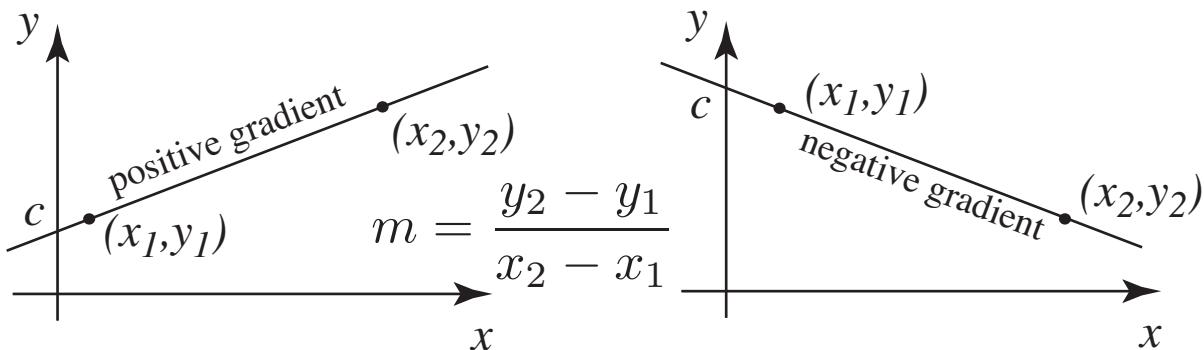


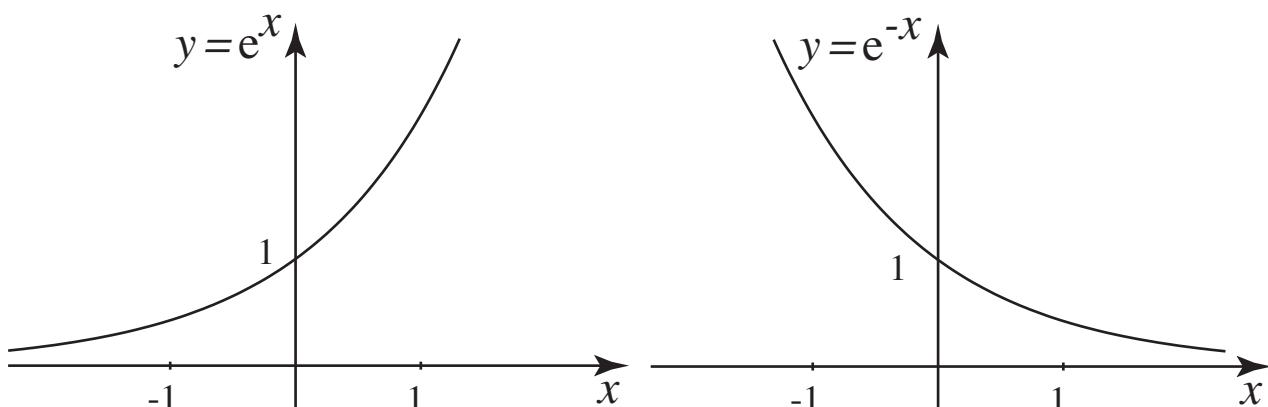
Graphs of common functions

Linear: $y = mx + c$, m =gradient, c = vertical intercept



Exponential functions:

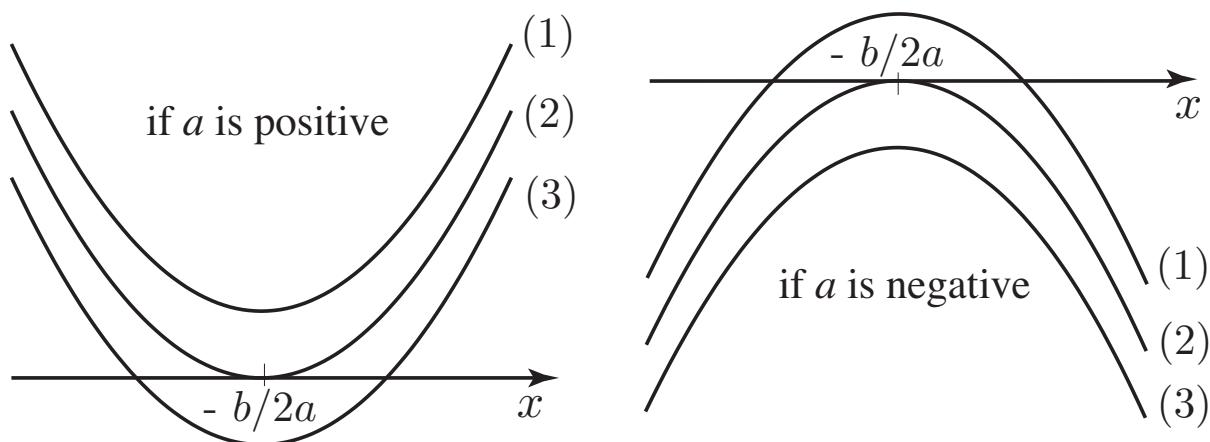
$e \approx 2.718$ is the exponential constant.



Graph of $y = e^x$ showing exponential growth

Graph of $y = e^{-x}$ showing exponential decay

Quadratic functions: $y = ax^2 + bx + c$



(1) $b^2 - 4ac < 0$

(2) $b^2 - 4ac = 0$

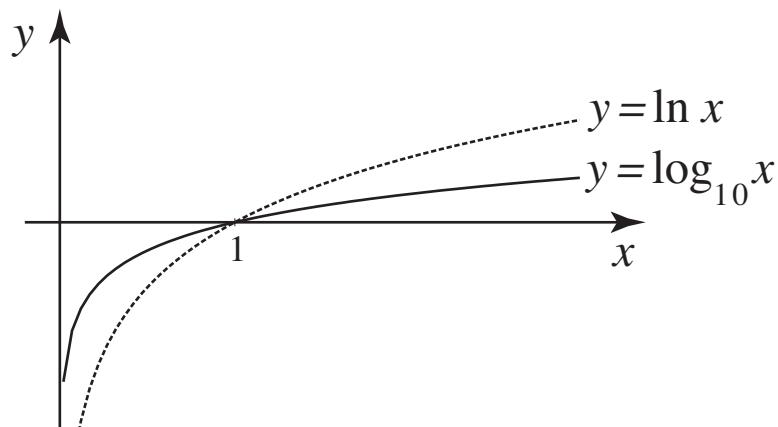
(3) $b^2 - 4ac > 0$

(1) $b^2 - 4ac > 0$

(2) $b^2 - 4ac = 0$

(3) $b^2 - 4ac < 0$

Logarithmic functions:



Graphs of $y = \ln x$ and $y = \log_{10} x$