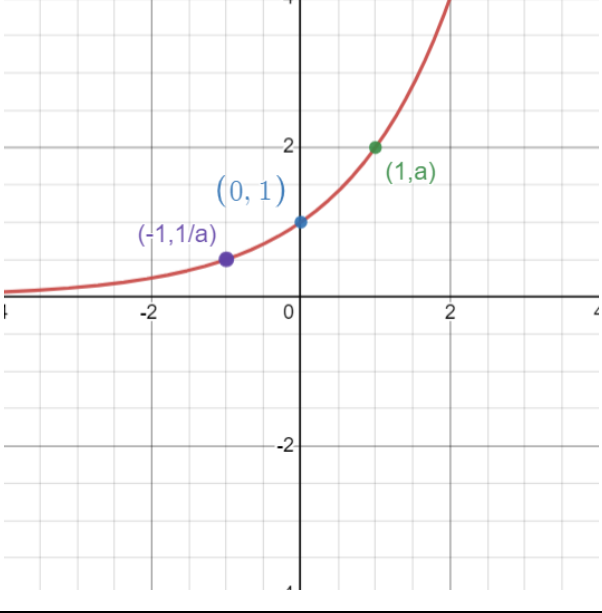
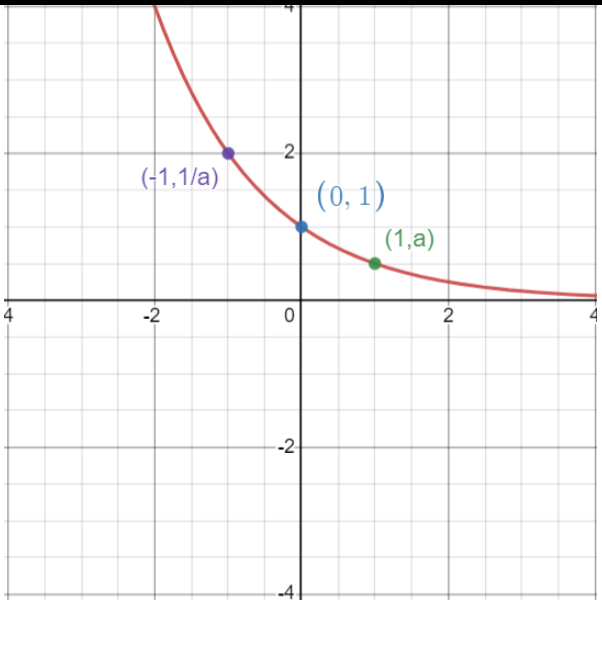


## Exponential function

$f(x) = a^x \quad \text{when } a > 1$	
<p>Domain: <math>(-\infty, \infty)</math>; range: <math>(0, \infty)</math>            x-intercept: none            y-intercept: <math>(0, 1)</math>            Horizontal asymptote:  <math>y = 0</math> (<math>x</math> - axis)            increasing            one-to-one</p>	
$f(x) = a^x \quad \text{when } 0 < a < 1$	
<p>Domain: <math>(-\infty, \infty)</math>; range: <math>(0, \infty)</math>            x-intercept: none            y-intercept: <math>(0, 1)</math>            horizontal asymptote:  <math>y = 0</math> (<math>x</math> - axis)            increasing            one-to-one</p>	