

Test 1 Reference Page

$(x - h)^2 + (y - k)^2 = r^2$	
$A = P \left(1 + \frac{r}{n}\right)^{nt}$	$A = Pe^{rt}$
<p>Doubling Time</p> $n(t) = n_0 2^{\frac{t}{a}}$	<p>Relative Growth Rate</p> $n(t) = n_0 e^{rt}$
<p>Logistic Growth</p> $n(t) = \frac{M}{1 + Ae^{-rt}}$ <p>where M = carrying capacity $A = (M - n_0)/n_0$</p>	<p>Radioactive Decay</p> $m(t) = m_0 e^{-rt}$ <p>where $r = \frac{\ln 2}{h}$</p>
<p>Newton's Law of Cooling</p> $T(t) = T_s + D_0 e^{-kt}$	$pH = -\log[H^+]$
$M = \log \frac{I}{S}$ <p>where $S = 10^{-4} \text{ cm}$</p>	$B = 10 \log \frac{I}{I_0}$ <p>where $I_0 = 10^{-12} \text{ W/m}^2$</p>