Calculate formulas for the derivatives of the functions given in the table below.

Function	Derivative
$f(x) = \left(1 + x^2\right)^7$	
$f(x) = \sqrt{1 + 3^x}$	
$h(t) = e^{t^2 + t}$	
$l(z) = \dfrac{z}{\left(z^3 + 1\right)}$	
$q(s) = e^s \sqrt{1 + e^{2s}}$	
$u(z) = \dfrac{z^2}{e^{1 + 3^2}}$	
$v(t) = \left(t^{\frac{3}{2}} - \sqrt{t}\right)^\pi \left(3^t + 7\right)^e$	
$m(z) = 7e^z \left(2^z + z^2\right)^{-1}$	