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0. Thus $A = 1$ giving
in total the solution y
of $y(t) = \sin(t) + Ce$
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the following

differential equation
with the initial

condition, $v(t=0) = 0$, c
$$m \frac{dv}{dt} = mg - cv^2$$

Multiply both sides m
$$m \frac{dv}{dt} = mg - cv^2$$

Define $a = \frac{mg}{c}$, $b = \frac{c}{m}$
$$a^2 \frac{dv}{dt} = a^2 - bv^2$$

Integrate
separation of
variables, $\int \frac{dv}{a^2 - bv^2} = \int \frac{dt}{m}$
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integrals can be consulted to find that

$2 \int dx \frac{1}{1 + \tanh^2 x} = 2 \arctan(\cosh x) + C$

Therefore, the

integration yields $1 + \cosh x$

$\tanh x \dots$

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