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$$dS/dt = rS + k, \quad (7.2)$$

which can be solved with

the initial condition

$S(0) = S_0$, where S_0 is

the initial capital. The

differential equation is

linear and the

standard form is dS/dt

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$rS = k$, so that the
integrating factor is
given by. $m(t) = e^{rt}$.
The solution is
therefore $S(t) = e^{-rt}$.

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have wide
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