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(b) The numerical solution can be implemented as

(0)	2	19.62	68.1	12.5
(2)	0	9.81	=]]	[[v = + - (19.62) 2
6.2087	68.1	12.5	(4)	19.62 9.81 =]]
[[v = + -	The computation can be continued and the results summarized and plotted as:			
t	v	dv/dt	0	0 9.81 2
19.6200	6.2087	4	32.0374	3.9294 6
39.8962	2.4869	8	44.8700	1.5739

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$$m \frac{dv}{dt} + c v = m g$$

Multiply both sides by m/c
$$dv/dt + (c/m)v = g$$

Define $\tau = cm/g$
$$dv/dt + v/\tau = \tau g$$

Integrate by separation of variables,
$$\int dv = -\tau g \int dt$$

A table ...

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