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For example, here is a simple M-file to evaluate whether a grade is passing:

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```
function grader (grade) % grader
(grade): % determines whether grade is
passing % input: % grade = numerical
value of grade (0-100) % output: %
displayed message if grade >= 60 disp
('passing grade')...
```

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(b) The numerical solution can be implemented as

$$\begin{pmatrix} 0 \\ 2 \\ 19.62 \\ 68.1 \\ 12.5 \end{pmatrix} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} v \\ + \\ - \\ (19.62) \end{bmatrix}$$

(2) $0 \ 9.81 \mid = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} v \\ + \\ - \\ (19.62) \end{bmatrix}$

(4) $19.62 \ 9.81 \mid = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} v \\ + \\ - \\ (19.62) \end{bmatrix}$

The computation can be

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continued and the results summarized
and plotted as: $t \quad v \quad dv/dt$
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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