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and average”

method, an old-time
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approximating the
square root of any
positive number a ,

can be formulated as

$x = x + a/x$ 2 Write a

well-structured M-file
function based on the
while...break loop

structure to implement
this algorithm.

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1.1 You are given the following differential equation with the initial condition, $v(t=0) = 0$, $v^2 m c g dt dv = ?d$. Multiply both sides by m/cd . $gv^2 c$

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$m \frac{dv}{dt} = mg - \frac{c}{v^2}$

Define $a = mg/c$.

$\frac{dv}{dt} = a - \frac{1}{v^2}$

Integrate by

separation of

variables, $\int \frac{v^2}{v^2 - a} dv = \int dt$

$\frac{1}{2} \ln |v^2 - a| + \frac{v}{v^2 - a} = t + C$

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11.1 You are given

the following

differential equation

with the initial

condition, $v(t = 0) =$

$0, c \frac{dv}{dt} = mg - cv$

Multiply both

sides by m/c $\frac{dv}{dt} = \frac{mg}{c} - \frac{c}{m}v$

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

Define $a = \frac{mg}{c}$ $\frac{dv}{dt} = a - \frac{c}{m}v$

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$dv = a^2 \cdot v^2 c \, dt$

Integrate by
separation of

variables, $dv/cd = a^2 \cdot v^2$

$v^2 = \frac{1}{m} \int dt$

A table of
integrals can be
consulted to find
that $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$

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