# Content

[Content 0](#_Toc64085736)

[Accelerated motion 0](#_Toc64085737)

[Resistor 1](#_Toc64085738)

[Secant method 1](#_Toc64085739)

[Regula falsi method 2](#_Toc64085740)

[DC circuit R and ε 2](#_Toc64085741)

[Kinematics optimization(?) 3](#_Toc64085742)

[E due to finite line charge 4](#_Toc64085743)

[Notes and version 4](#_Toc64085744)

# Accelerated motion

*t* = *t*2

*x* = *x*2

*t* = *t*3

*x* = *x*3

*t* = *t*1

*x* = *x*1

*t* = 0

*x* = *x*0

*v*0

  

# Resistor

# Secant method

Start

*f*(*x*), *x*1, *x*2, *ε*

*n* = 1

2

1

*c* < ε

*c* = | *f*(*xn*+2)|

2

1

*n* = *n* + 1

N

*x*root *= xn*+2

*x*root

End

Y



# Regula falsi method

Start

*f*(*x*), *x*1, *x*2, *ε*

*n* = 1

2

1

*c* < ε

*c* = | *f*(*xn*+2)|

2

1

*n* = *n* + 1

N

*x*root *= xn*+2

*x*root

End

Y



# DC circuit R and ε

*R*1

*R*2

*R*3

*R*4

*R*5

*R*6

*R*7

*R*8

*ε*1

*ε*3

*ε*2

*I*1

*I*2

*I*1 + *I*2

*I*1

*I*2

*I*3

*I*3

*I*1

*I*1

*I*1 – *I*3

*I*1 – *I*3

*I*2 + *I*3

*I*2

*I*2

*I*3

*I*3

*I*3

*I*3

*I*3

*I*3

*I*2 + *I*3

*I*1 + *I*2

*a*

*b*

*c*

*d*

# Kinematics optimization(?)

*A*1

*A*2

*A*3

0

*t*1

*t*2

*t*3

*v*max

*v*

*t*

   

   

  

 









# E due to finite line charge

*x*

*y*

*z*

*x* = *a* + *L*

*x* = *a*

*L*

*dqj*

*λ*



*l*

*λ*, *L*



*o*

*l*



*o*

*x* = *a* + *s*



*s*

*s*



*x* = *a*

# Notes and version

* 130% (Jekyll + MathJax), save as 0000x first then save as back to 0000, remove 0000x then, x = i
* 20210209