

**Gradient Magnitude (AST)**



**Gradient Magnitude (DAG)**



**Loss/Objective (AST)**



**Loss/Objective (DAG)**



**Gradient Magnitude (AST)**



**Loss/Objective (AST)**



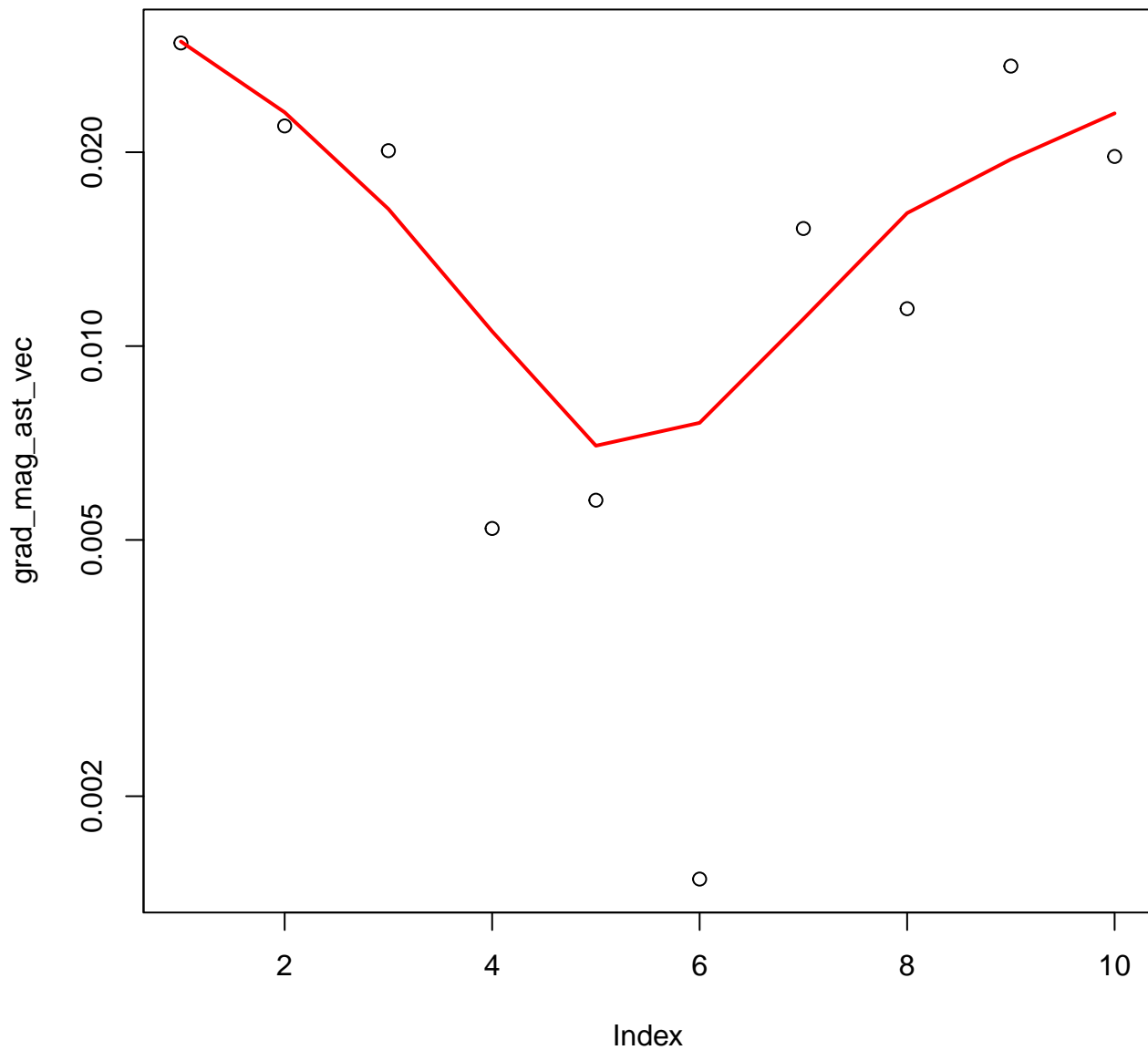
**Gradient Magnitude (DAG)**



**Loss/Objective (DAG)**



**Gradient Magnitude Evolution (ast)**



Value (ast)



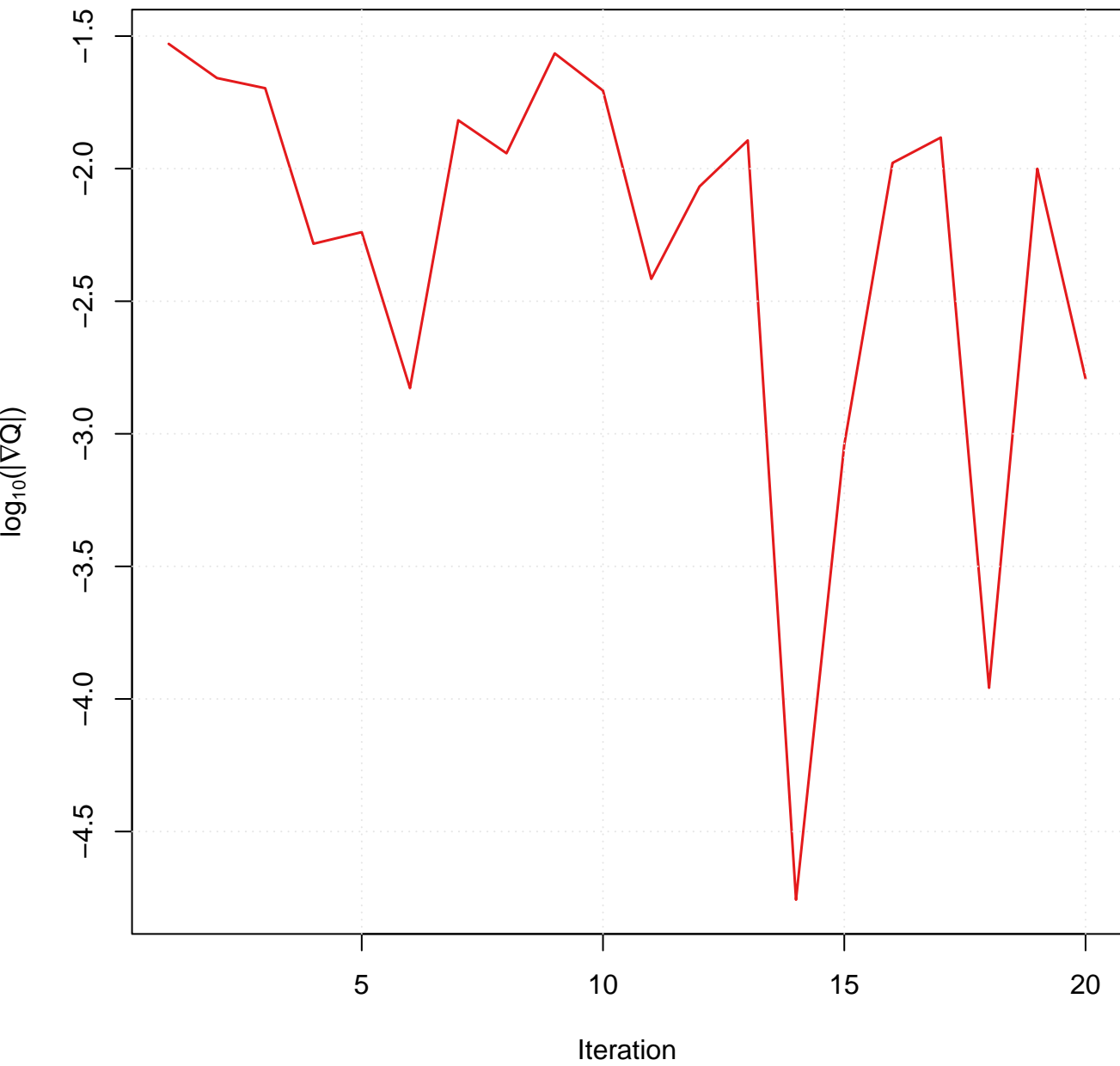
**Gradient Magnitude Evolution (ast)**



**Value (ast)**



**Gradient Magnitude (AST)**





**Gradient Magnitude Evolution (ast)**



Value (ast)



**Gradient Magnitude Evolution (ast)**



**Gradient Magnitude Evolution (dag)**



Value (ast)



**Value (dag)**



**Gradient Magnitude Evolution (ast)**



**Gradient Magnitude Evolution (dag)**





**Value (ast)**



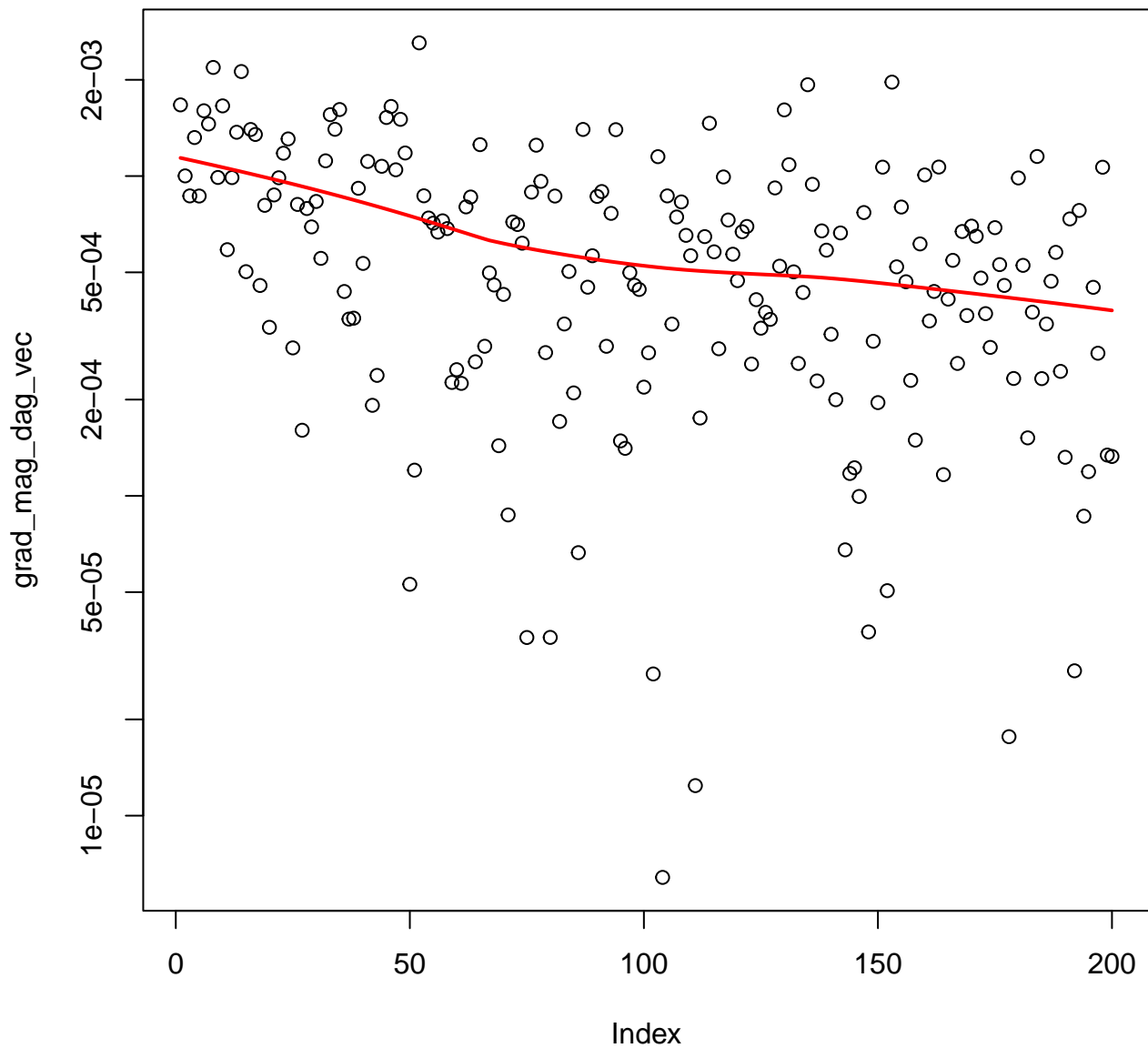
**Value (dag)**



**Gradient Magnitude Evolution (ast)**



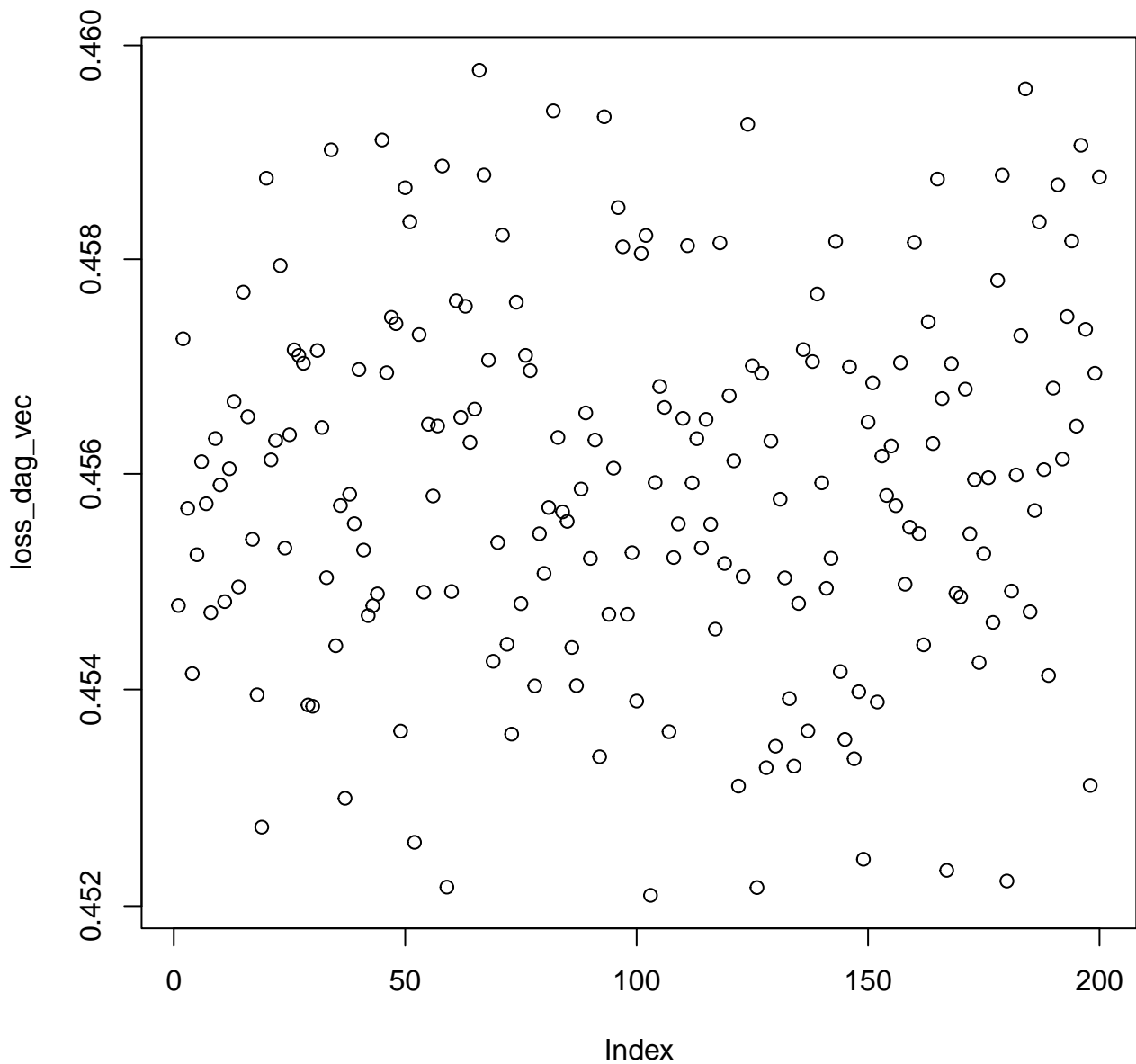
**Gradient Magnitude Evolution (dag)**



**Value (ast)**



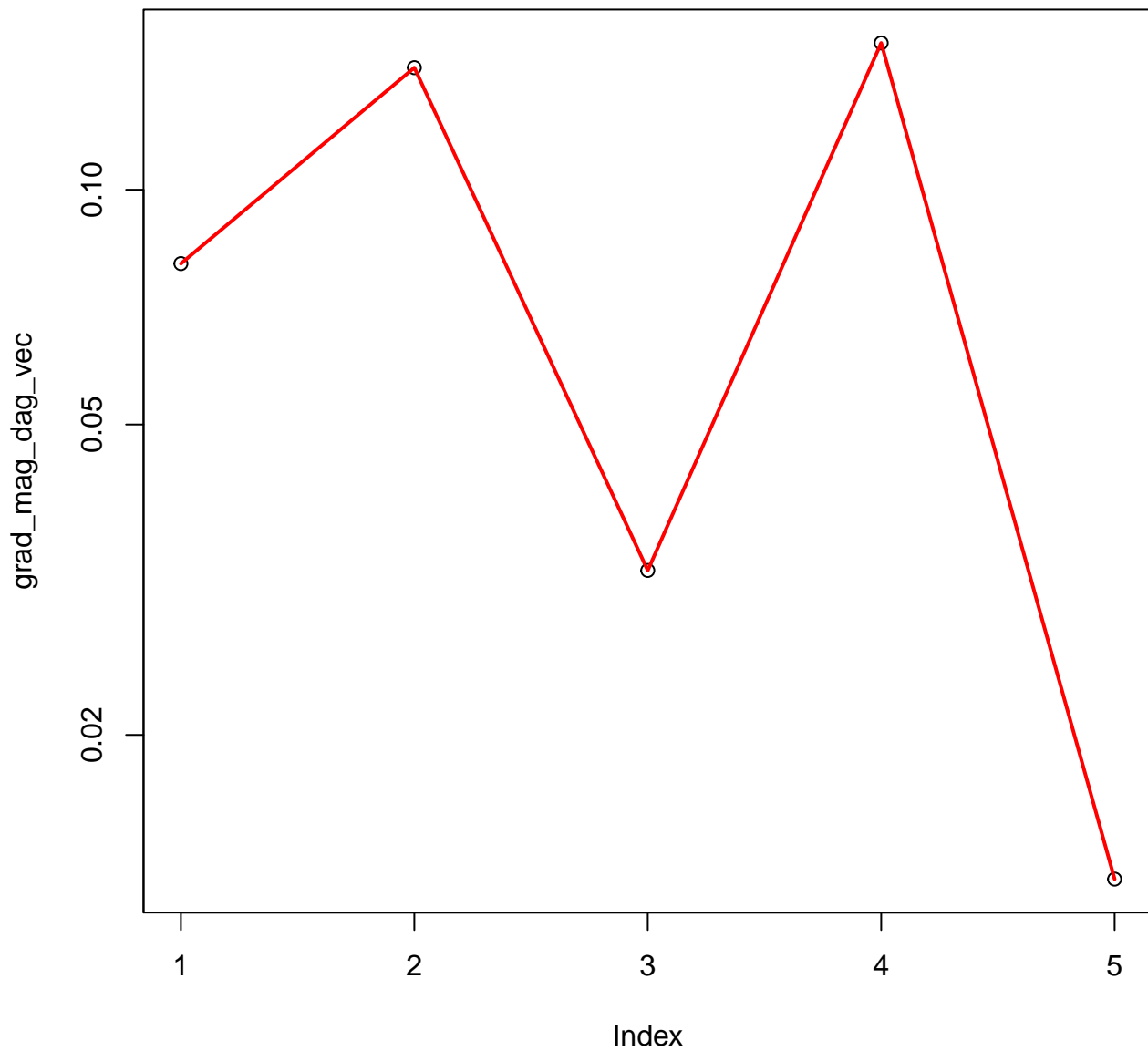
**Value (dag)**



**Gradient Magnitude Evolution (ast)**



**Gradient Magnitude Evolution (dag)**





**Value (ast)**



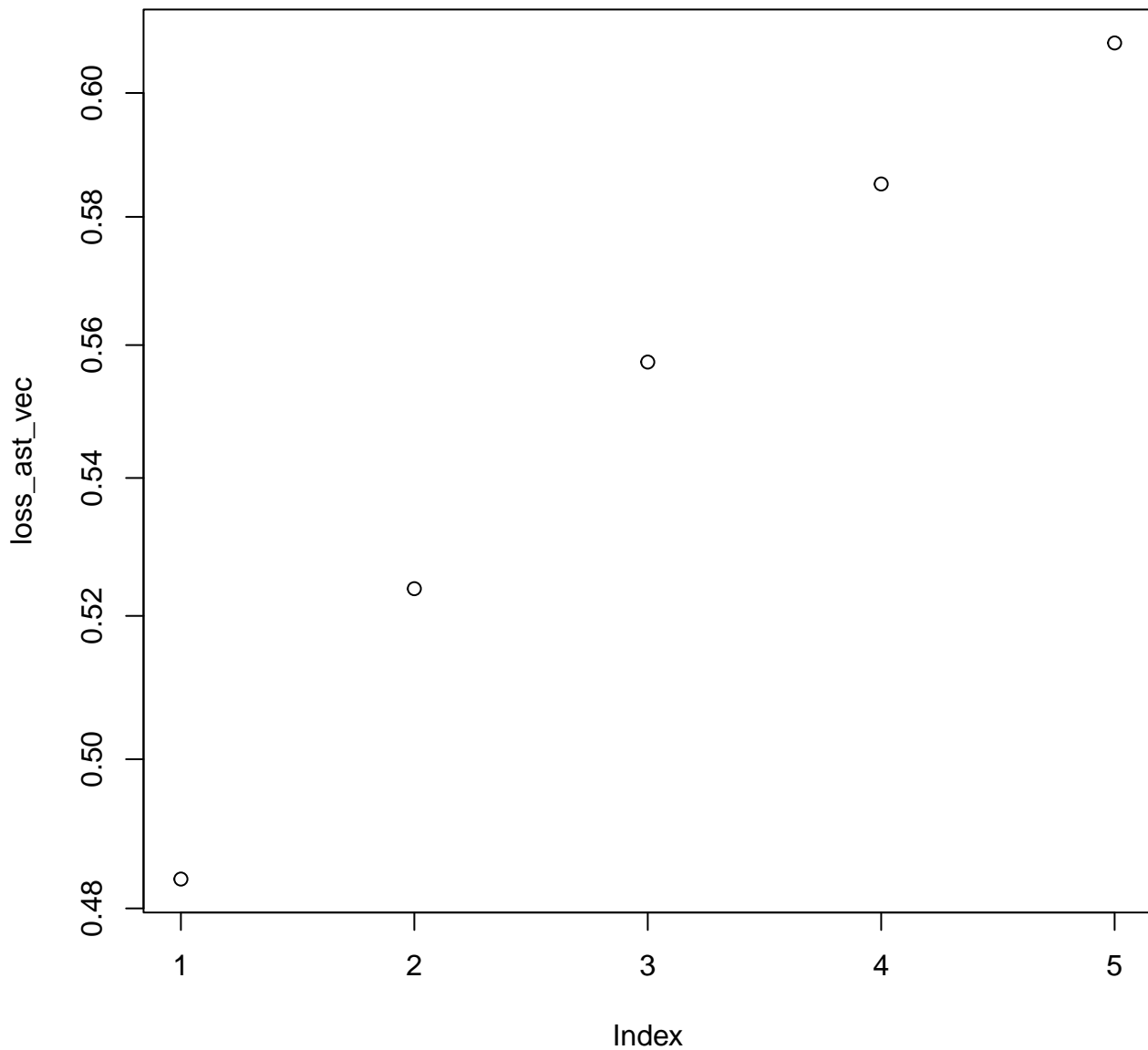
**Value (dag)**



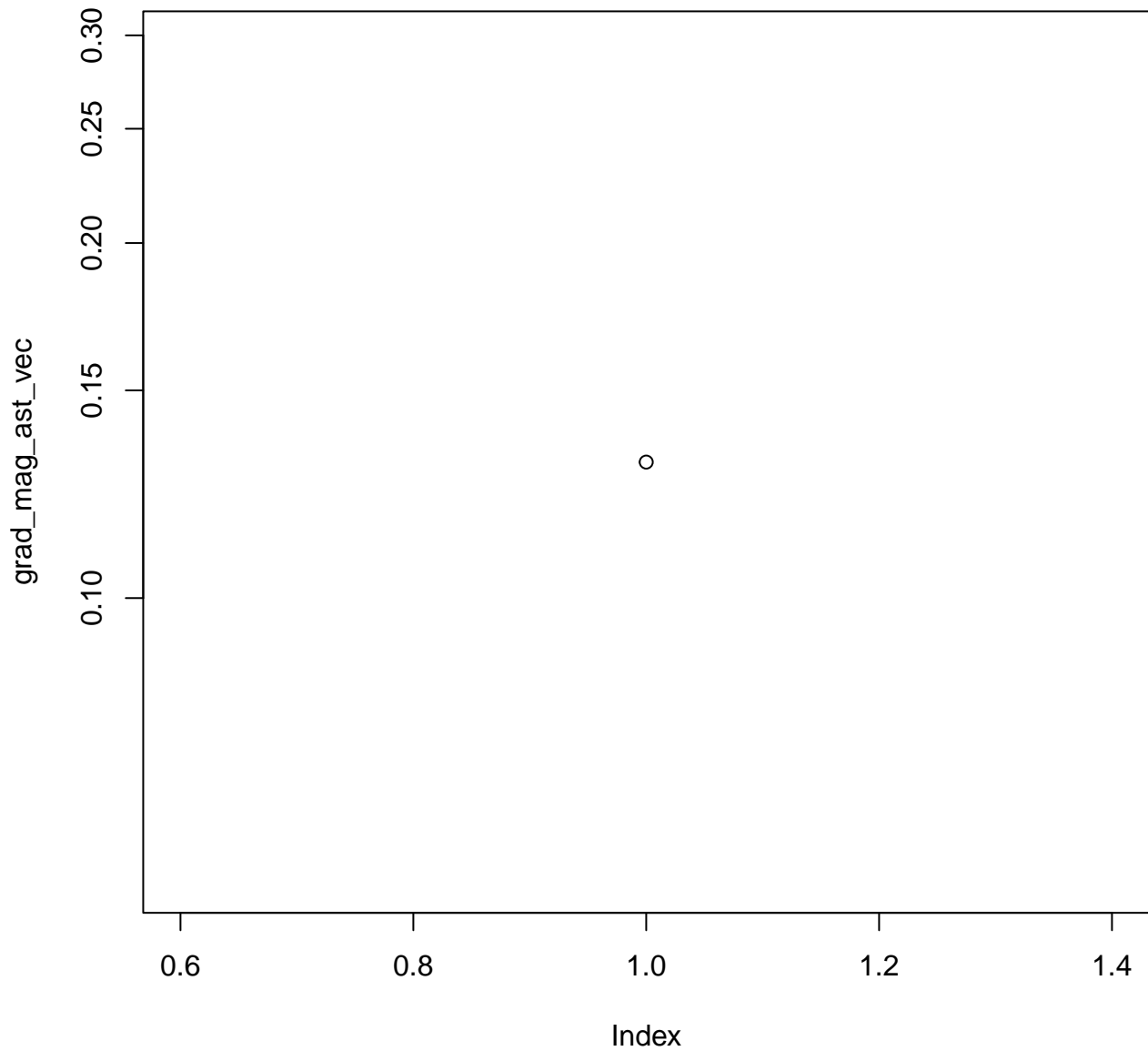
**Gradient Magnitude Evolution (ast)**



Value (ast)



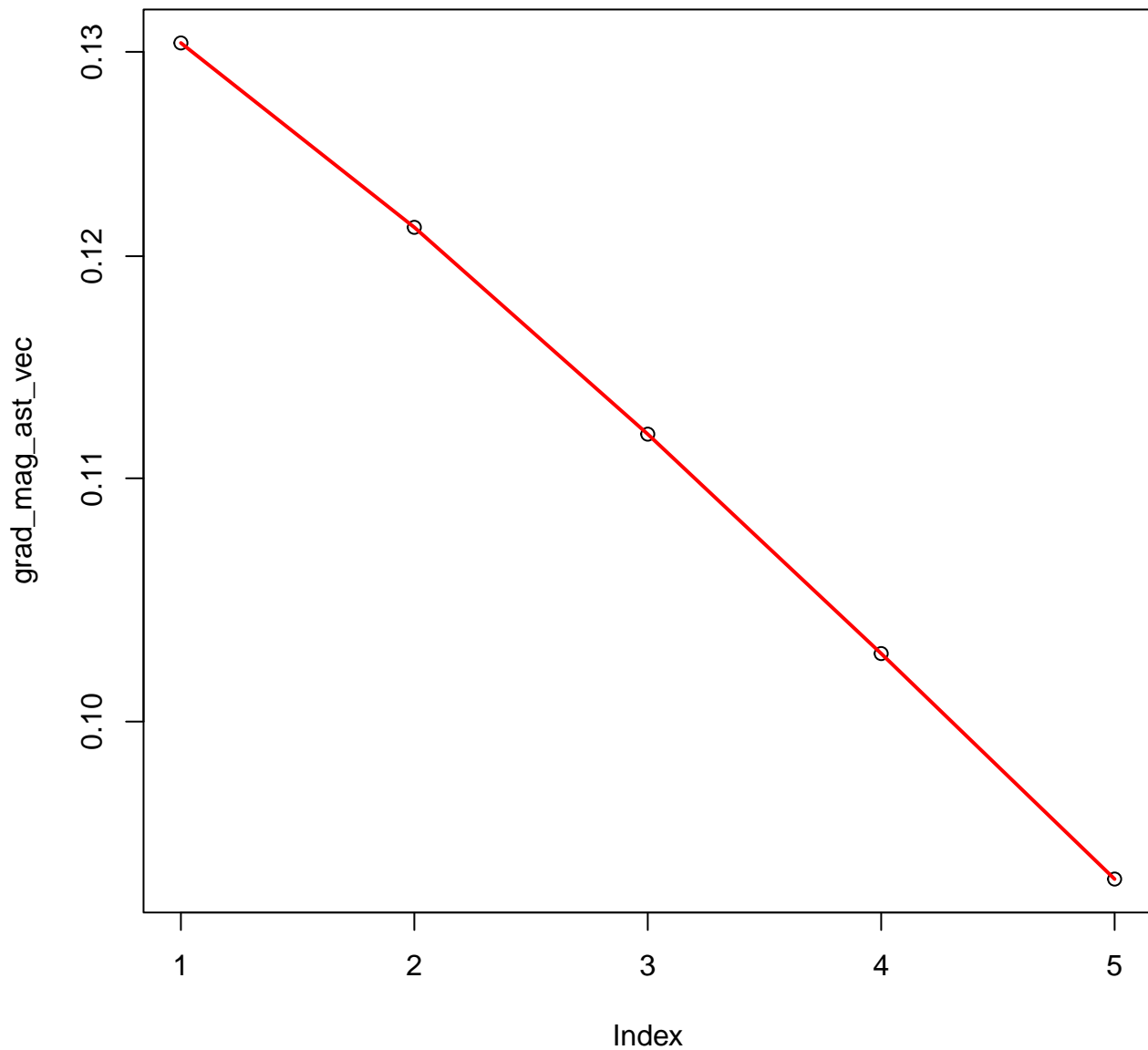
## Gradient Magnitude Evolution (ast)



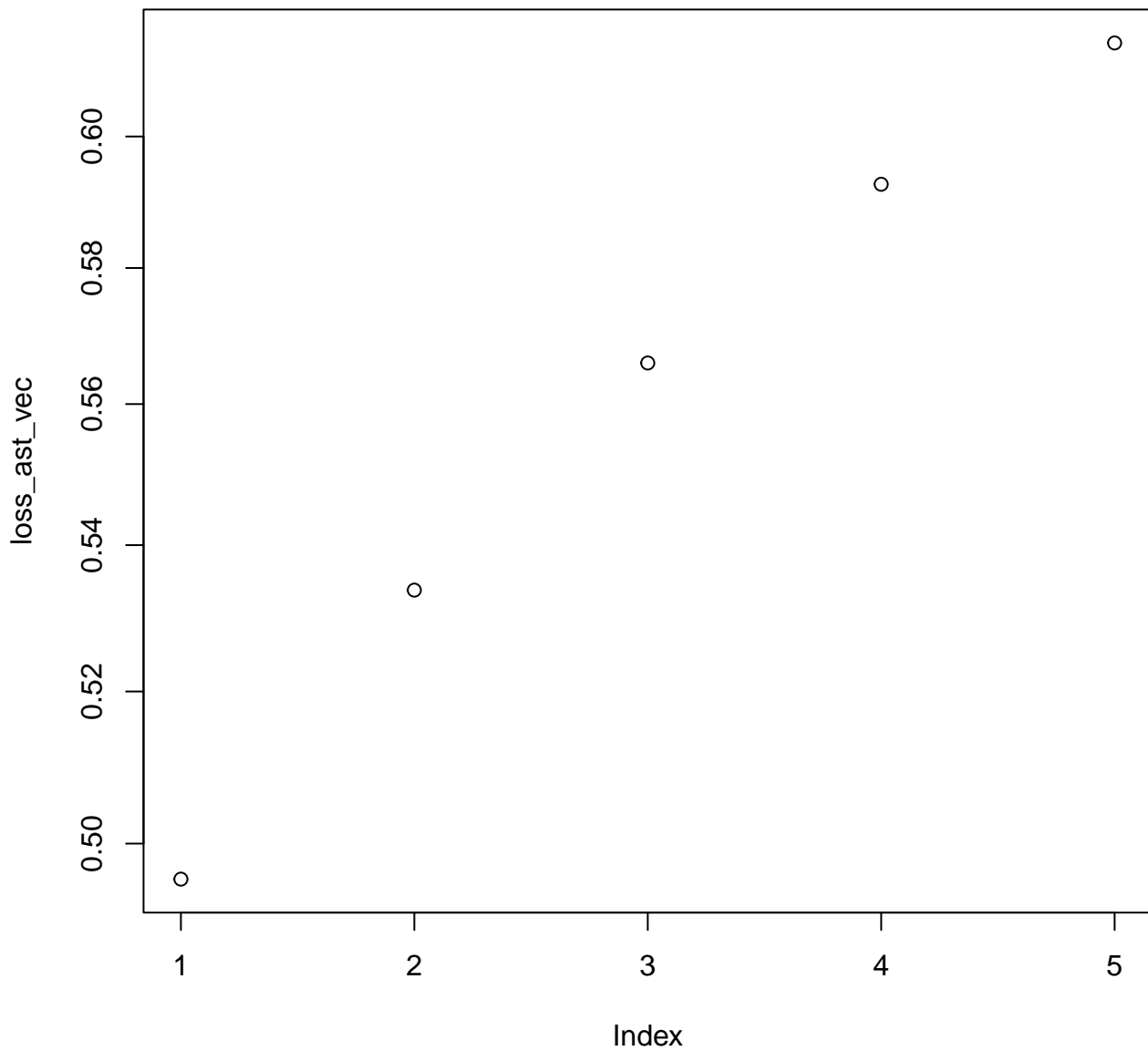
Value (ast)



**Gradient Magnitude Evolution (ast)**

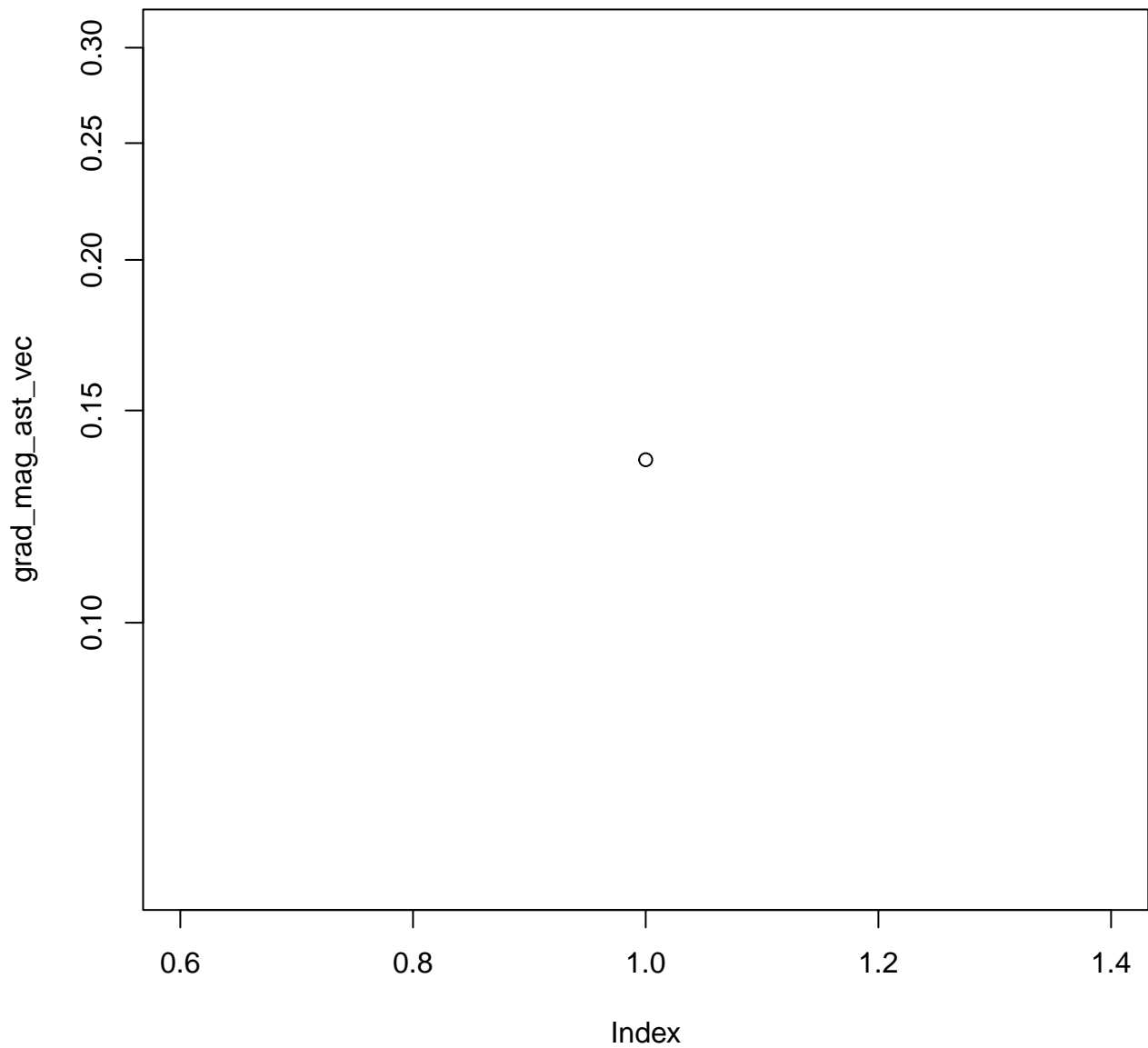


Value (ast)





**Gradient Magnitude Evolution (ast)**



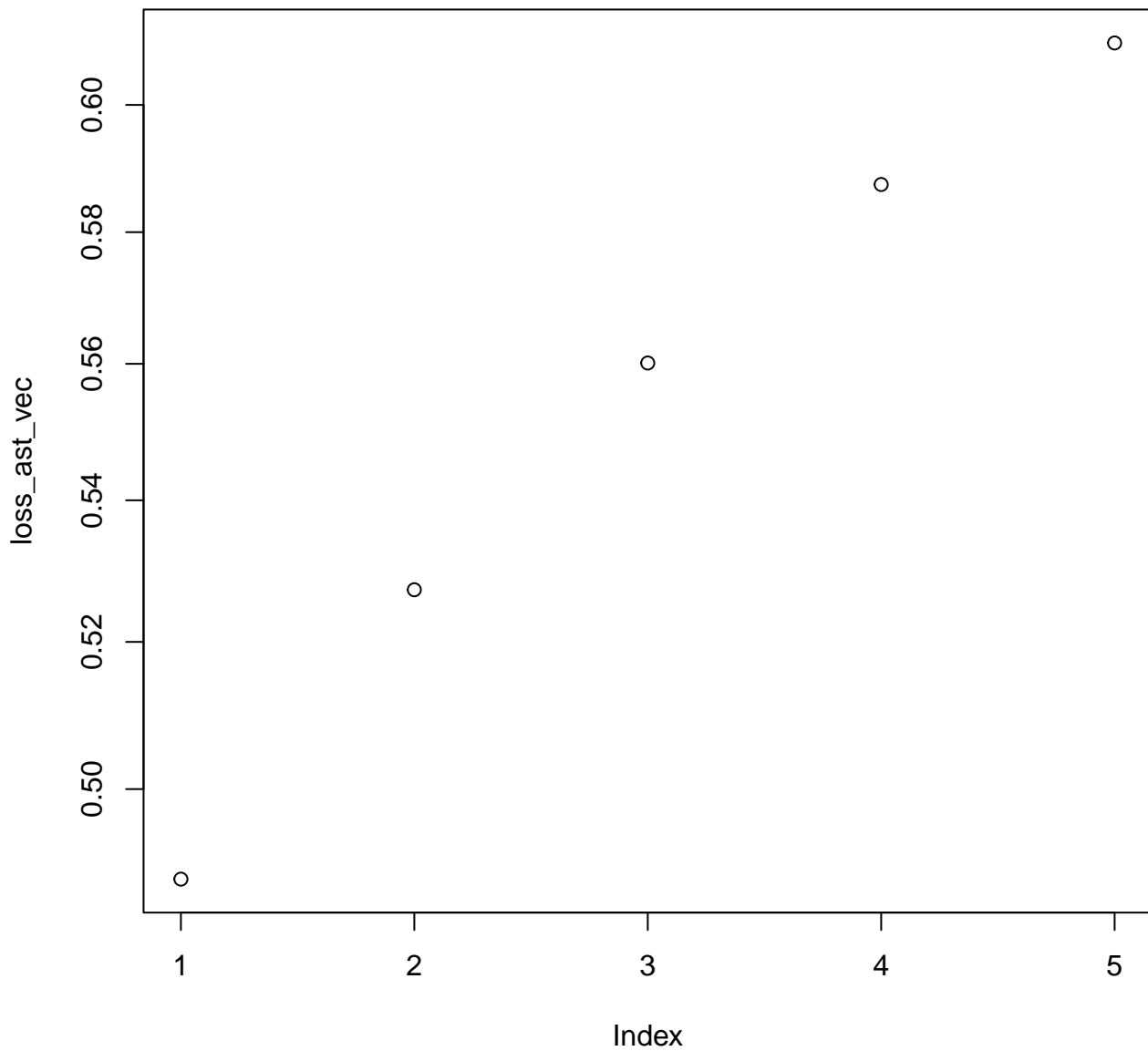
**Value (ast)**



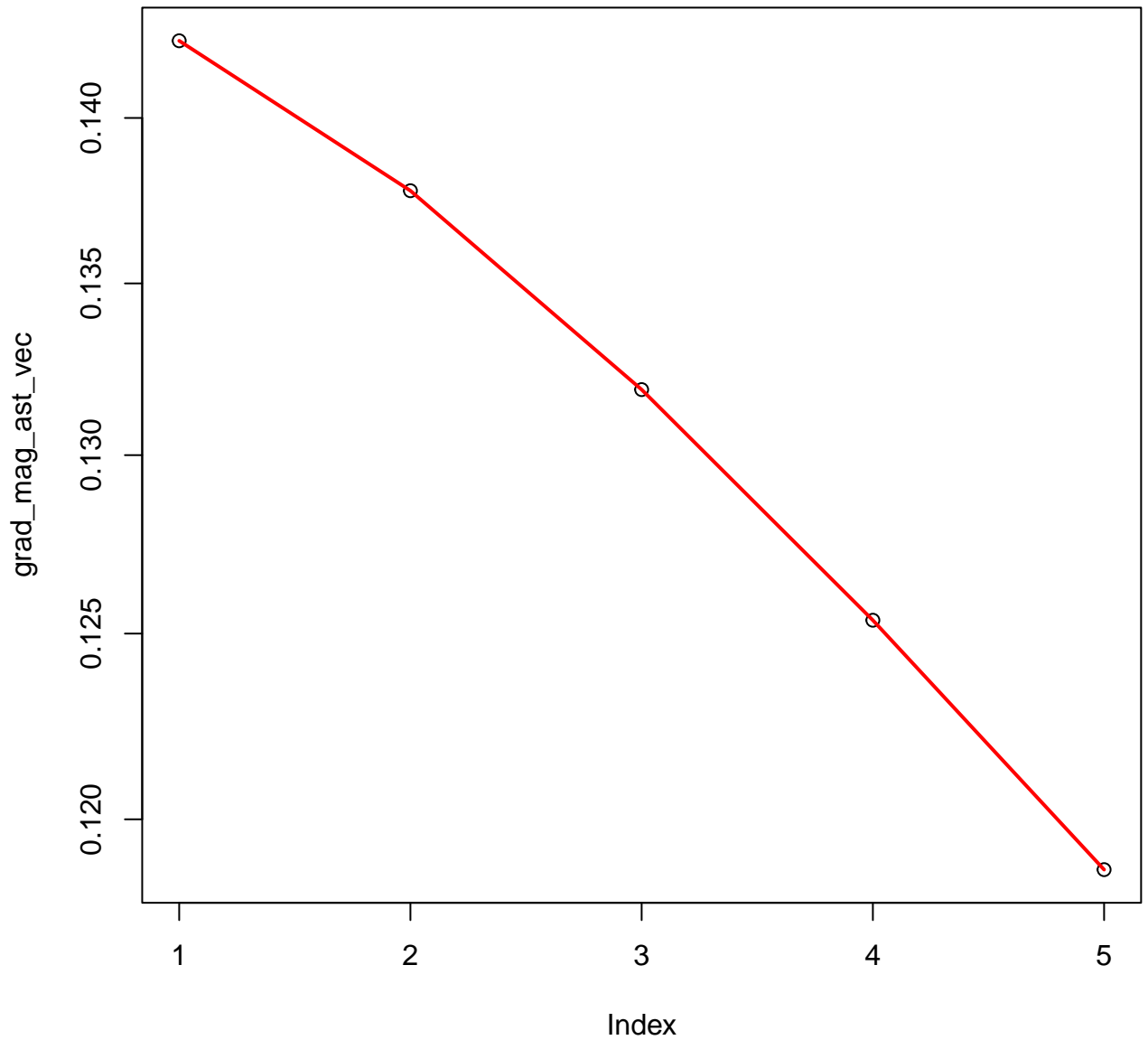
**Gradient Magnitude Evolution (ast)**



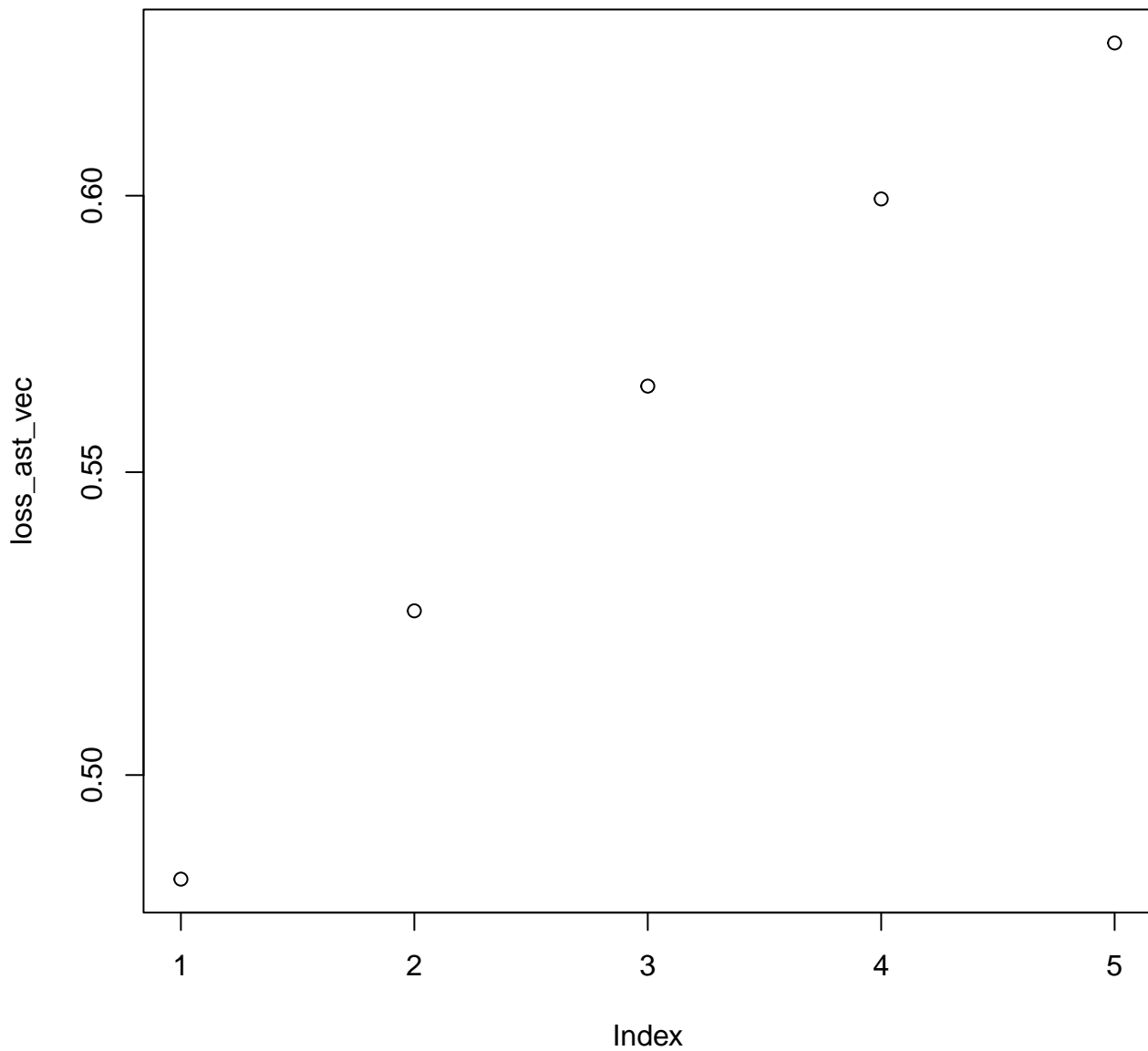
**Value (ast)**



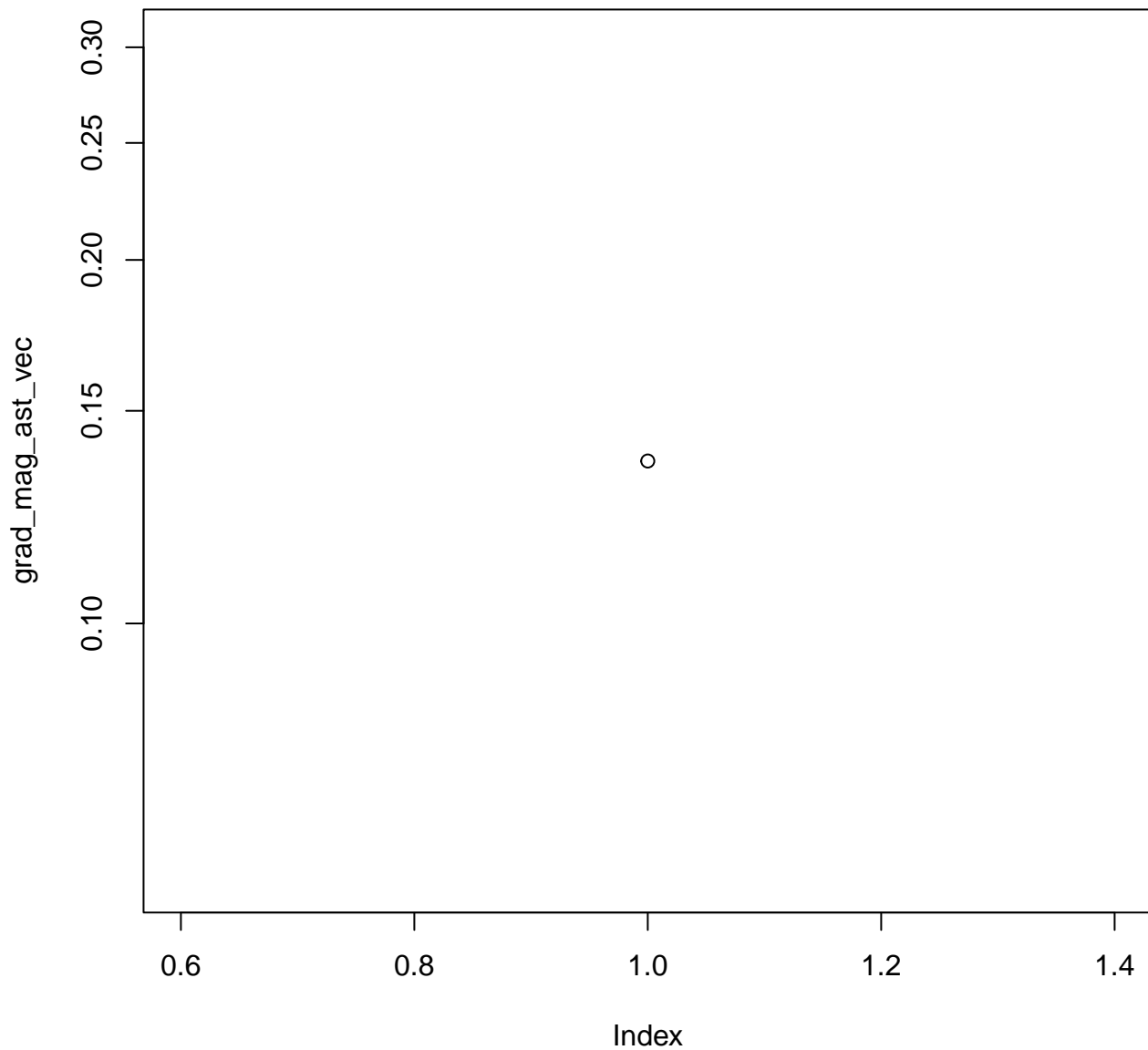
**Gradient Magnitude Evolution (ast)**



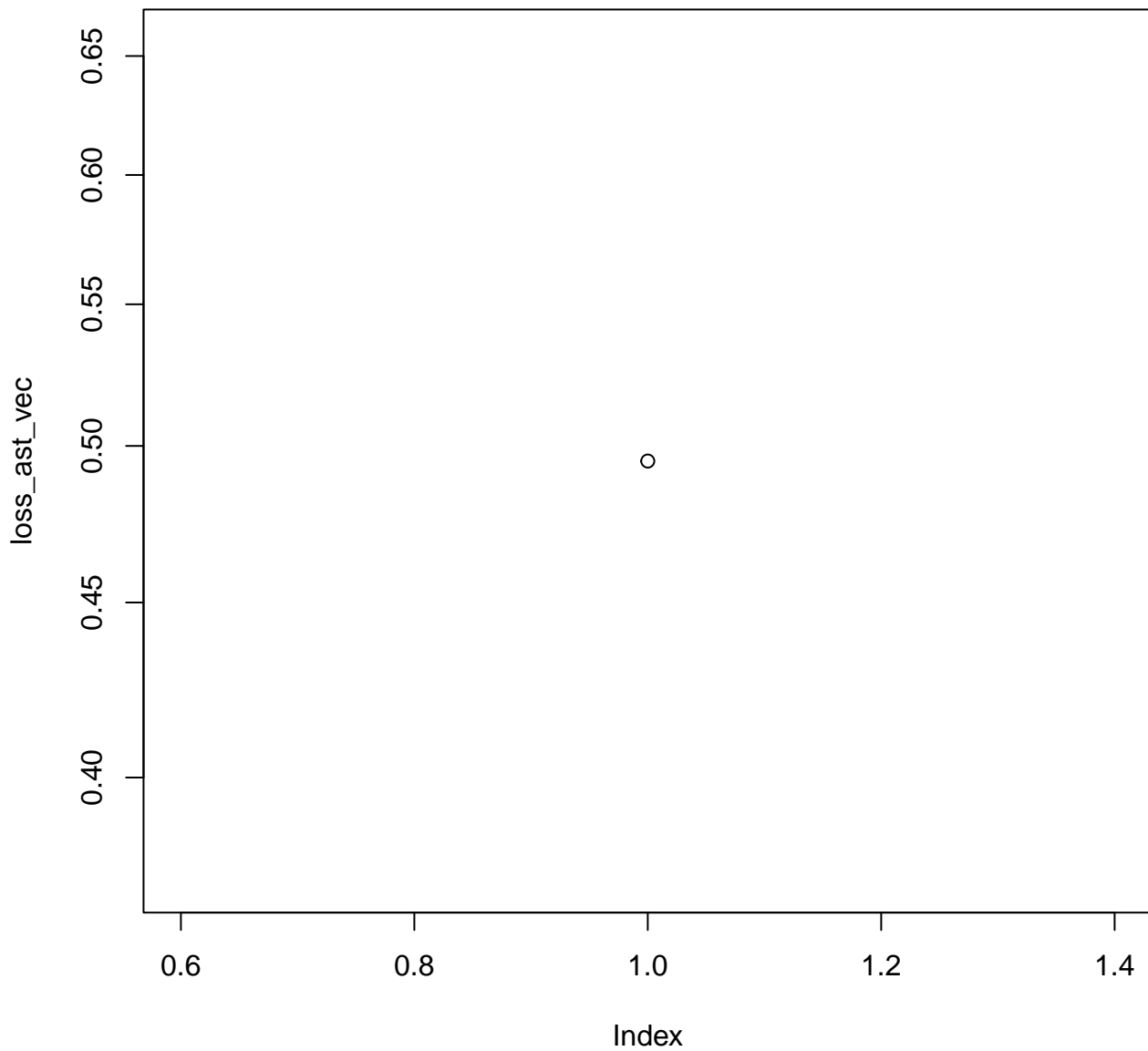
**Value (ast)**



**Gradient Magnitude Evolution (ast)**

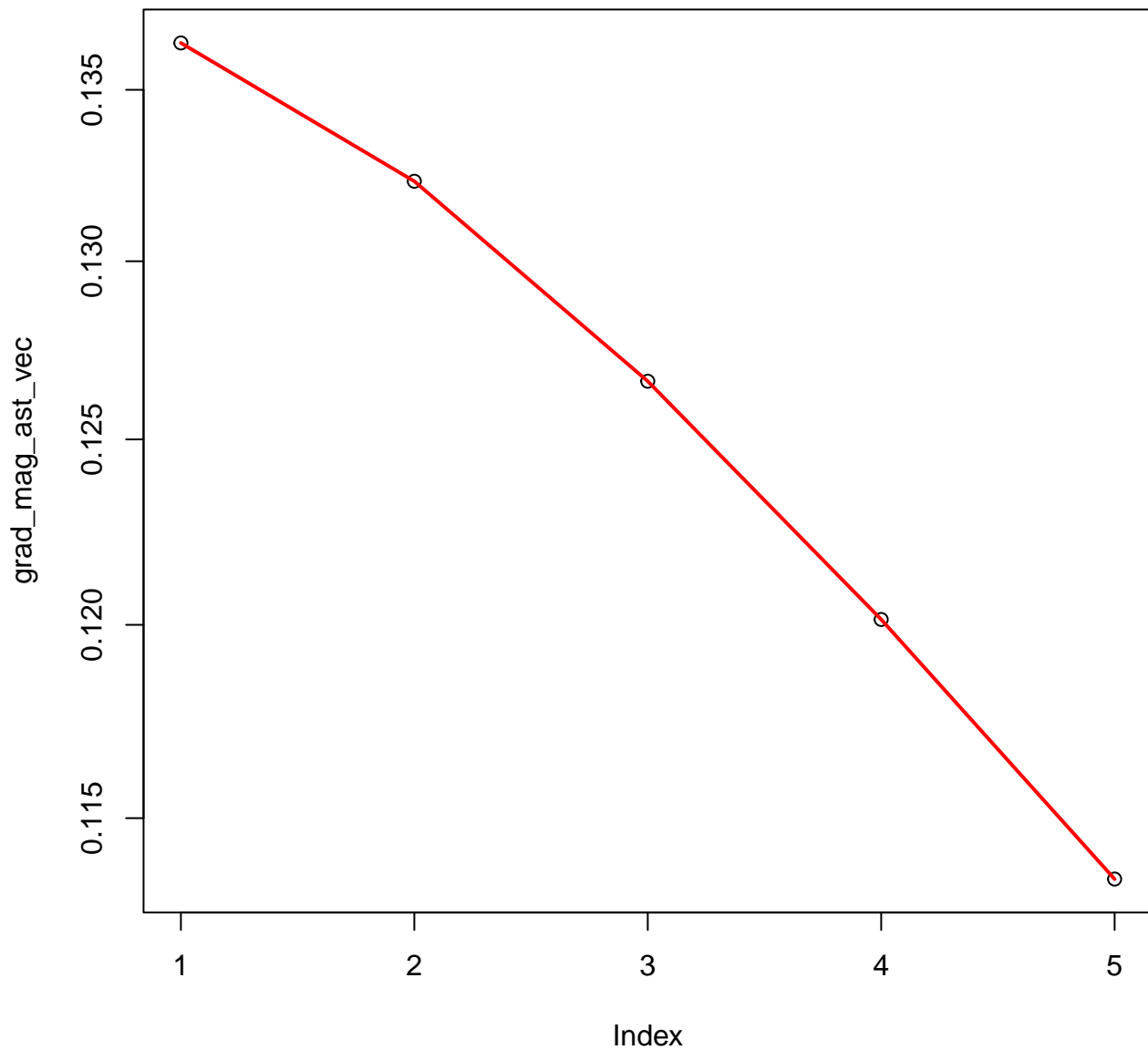


Value (ast)

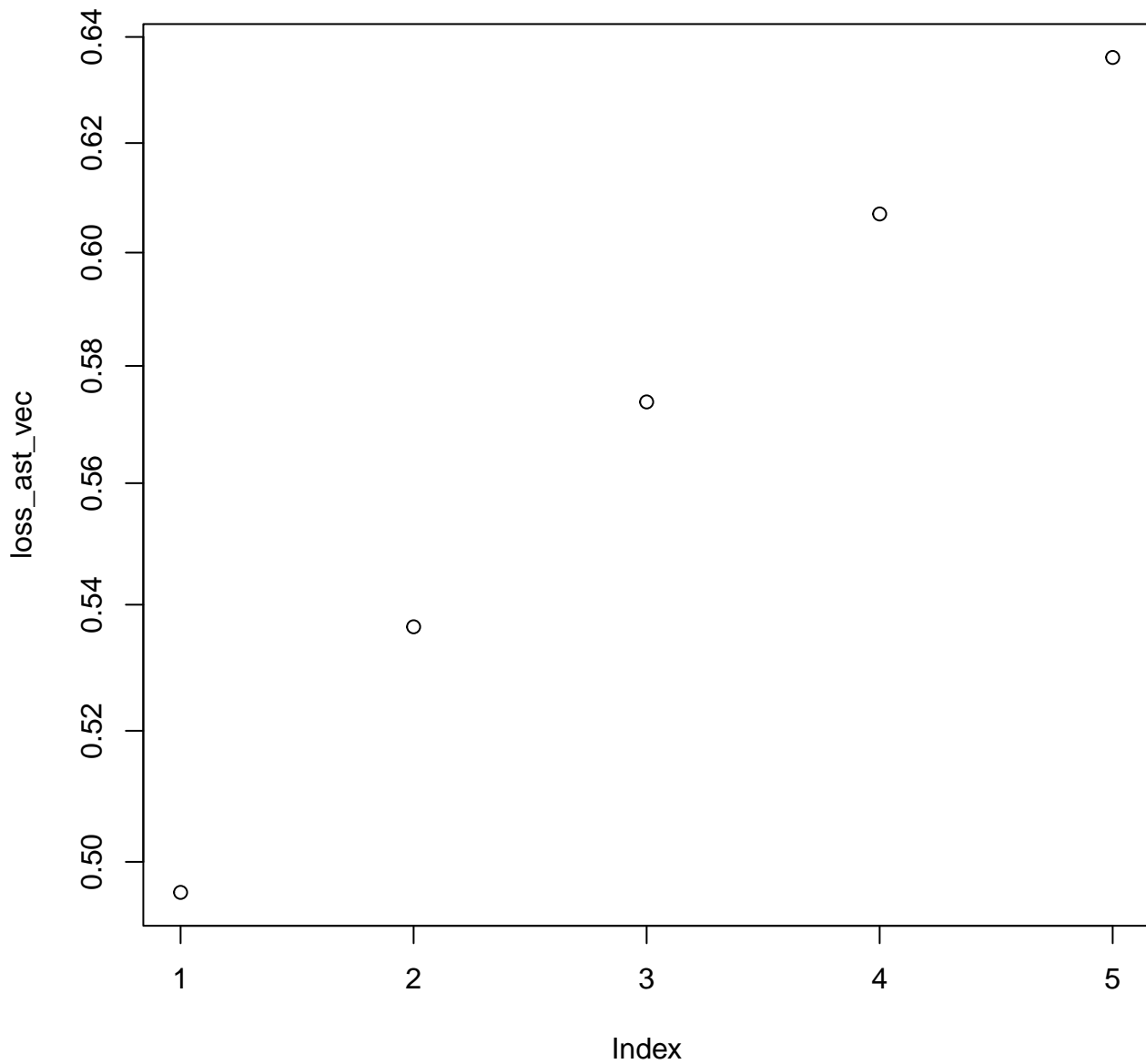




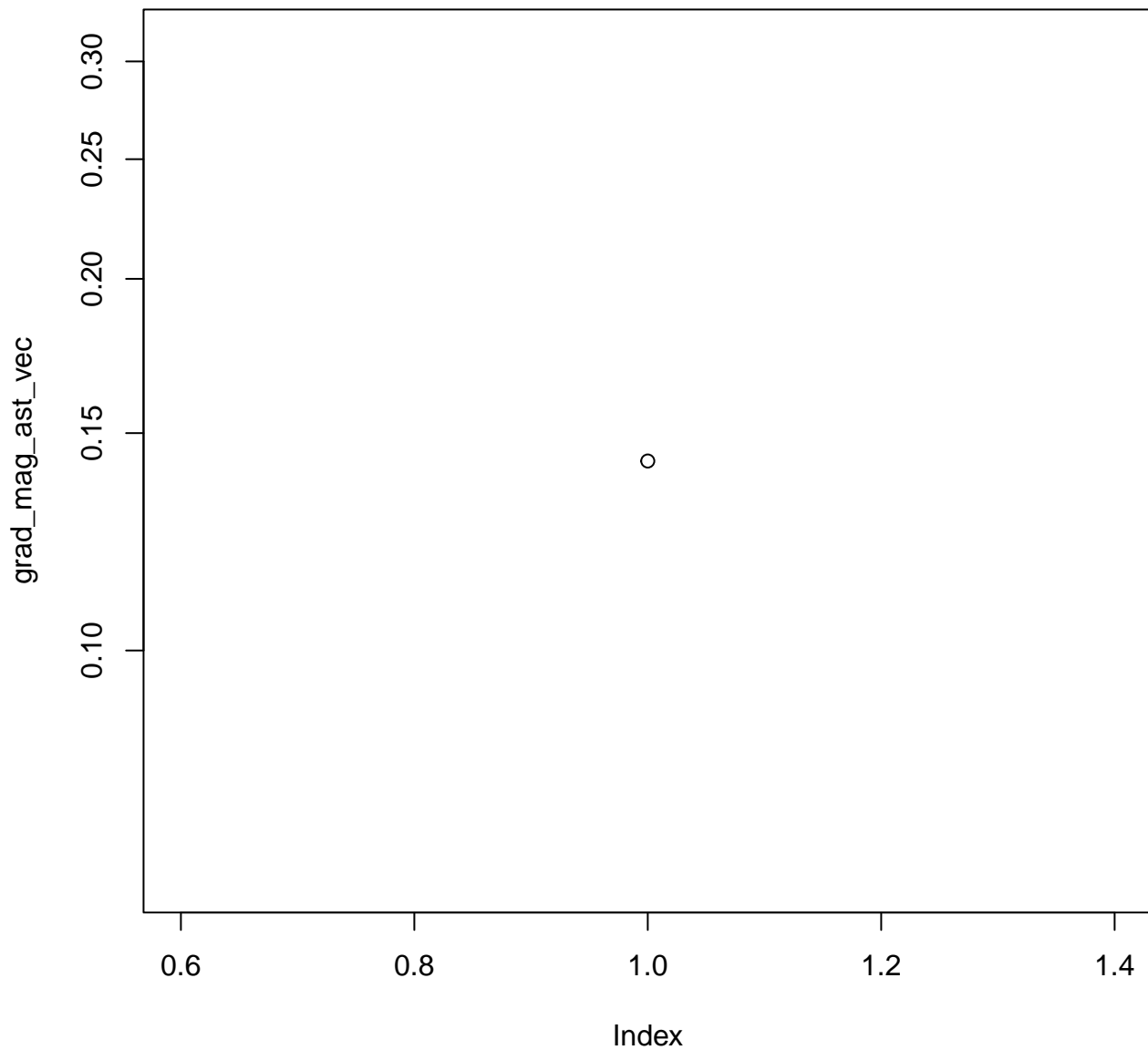
**Gradient Magnitude Evolution (ast)**



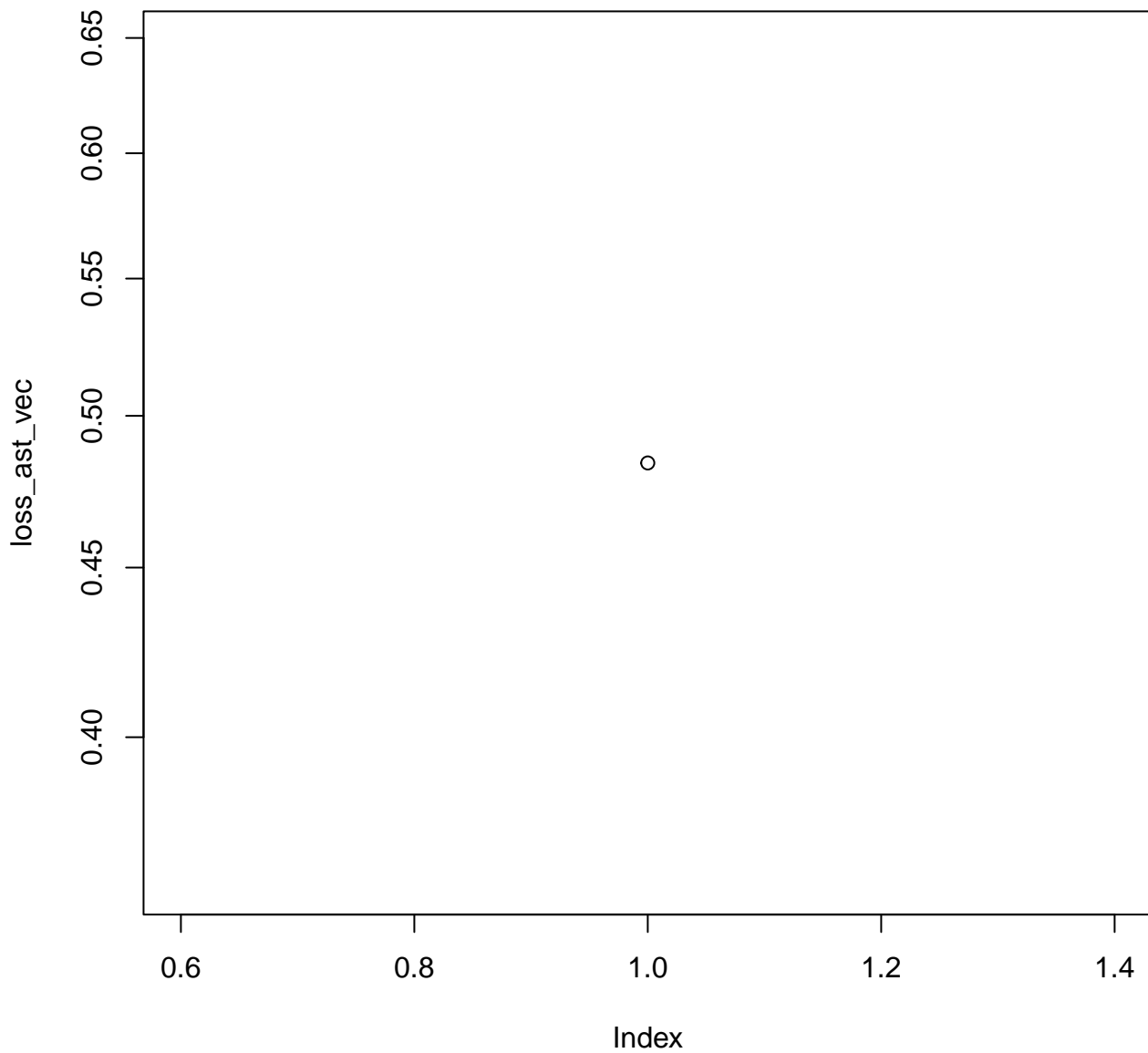
Value (ast)



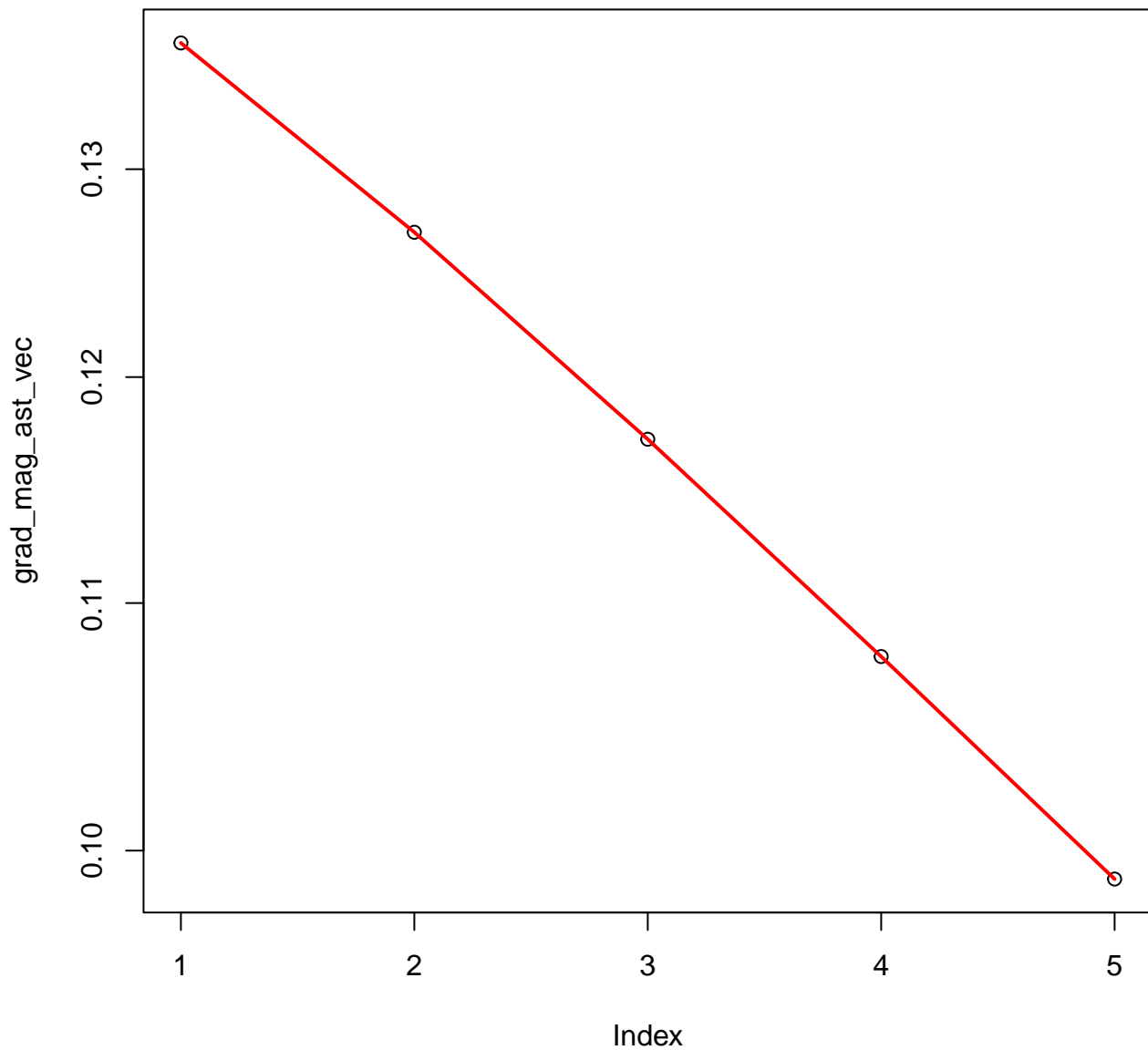
**Gradient Magnitude Evolution (ast)**



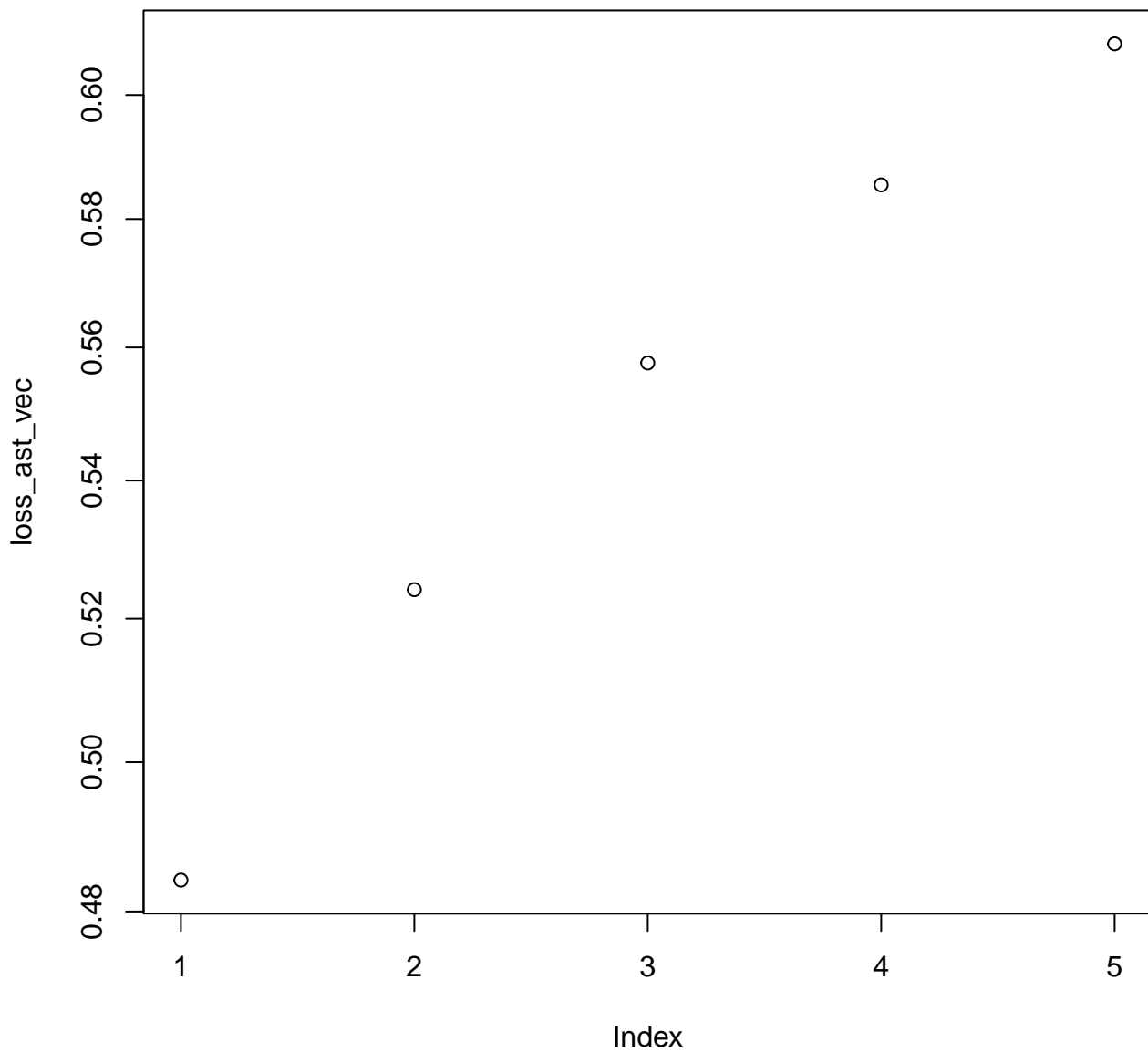
**Value (ast)**



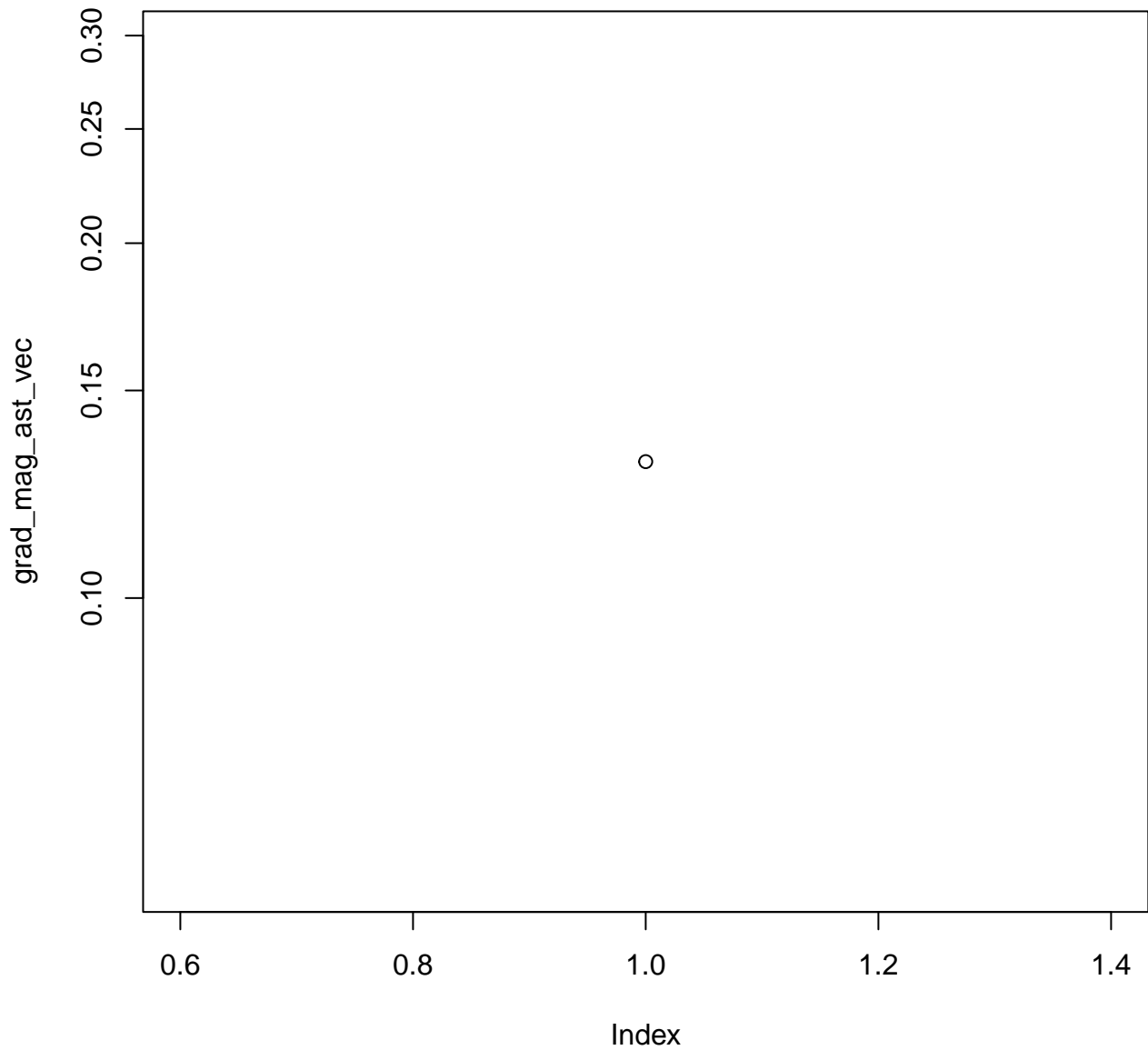
**Gradient Magnitude Evolution (ast)**



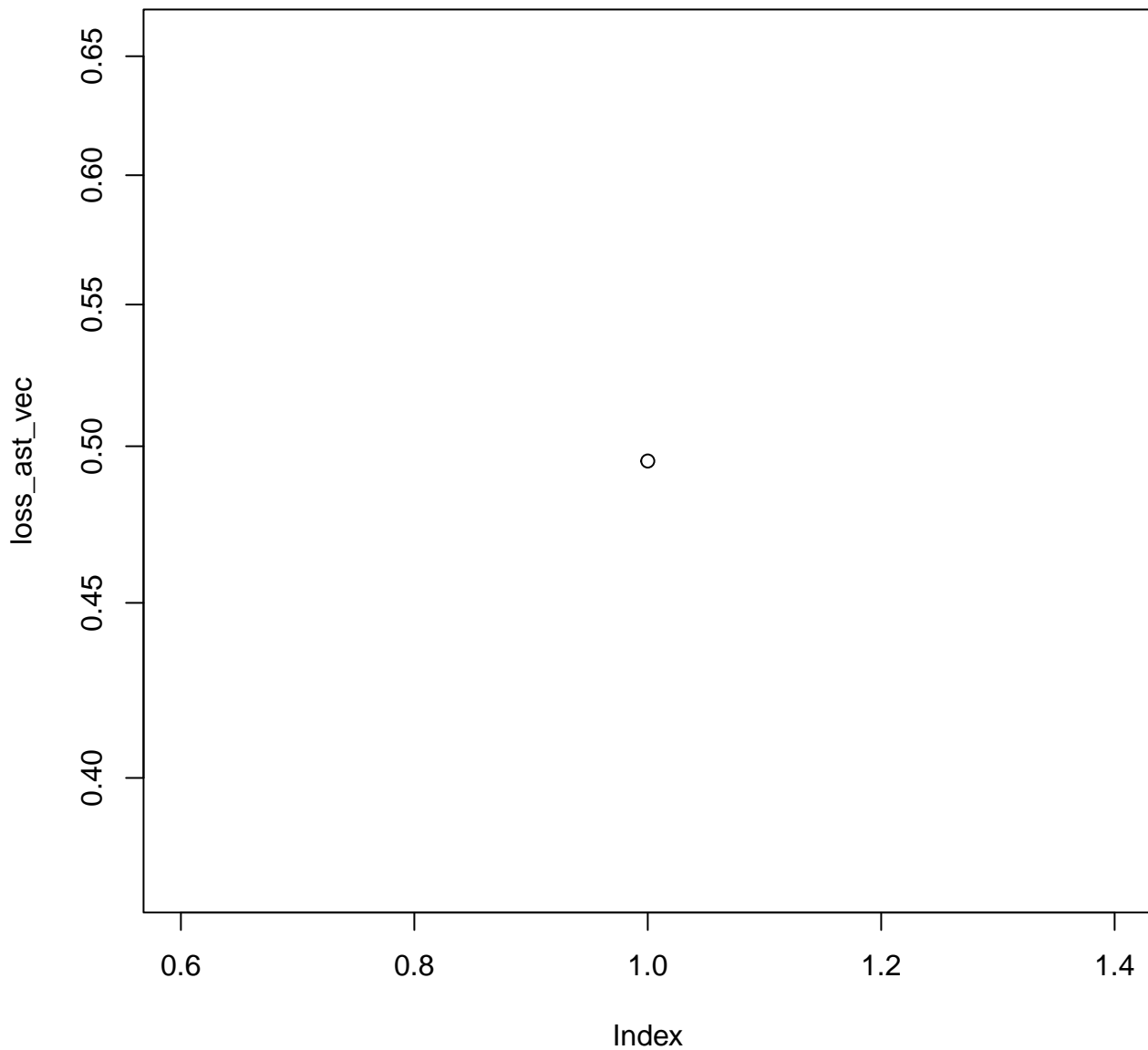
Value (ast)



## Gradient Magnitude Evolution (ast)

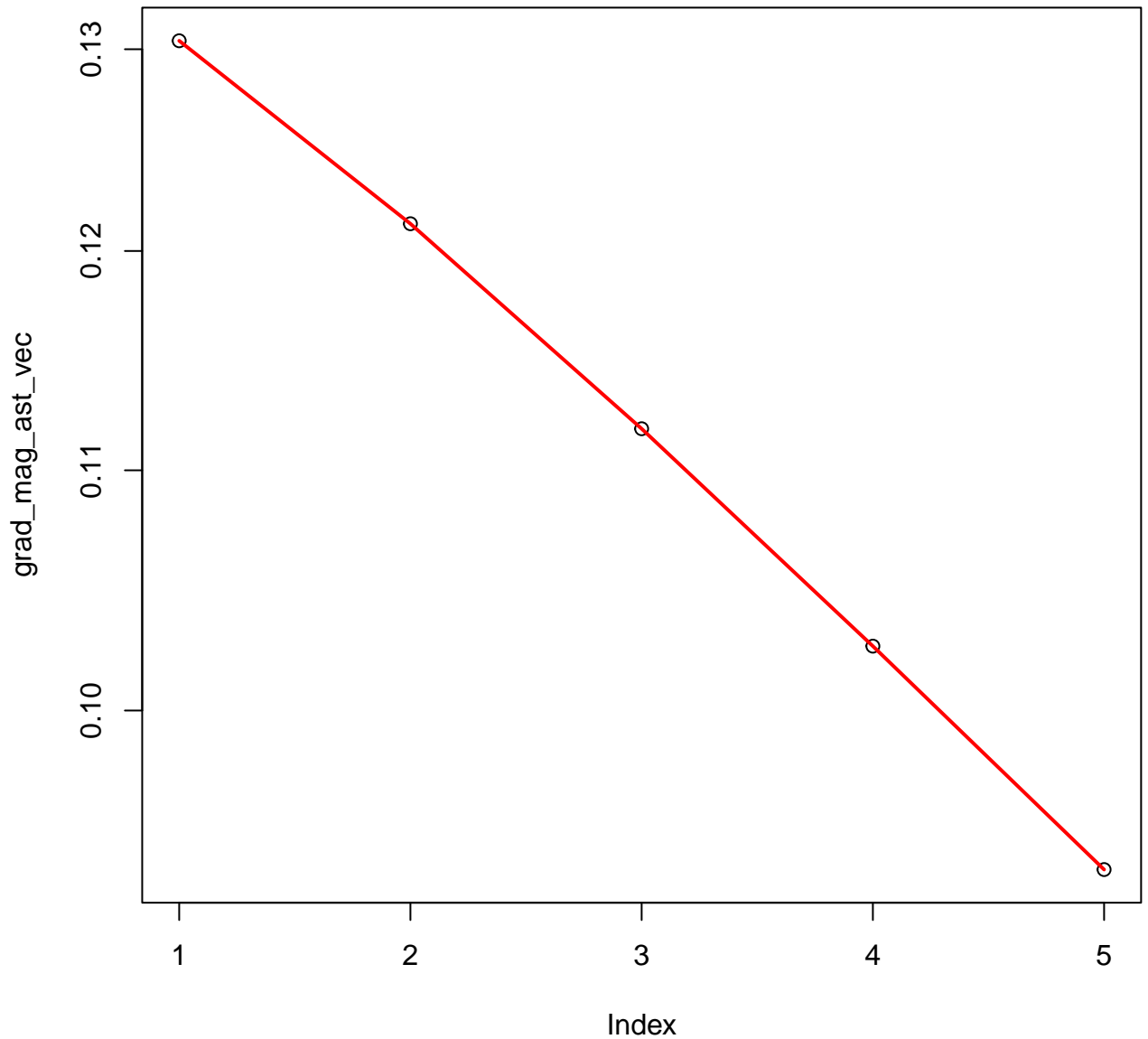


**Value (ast)**

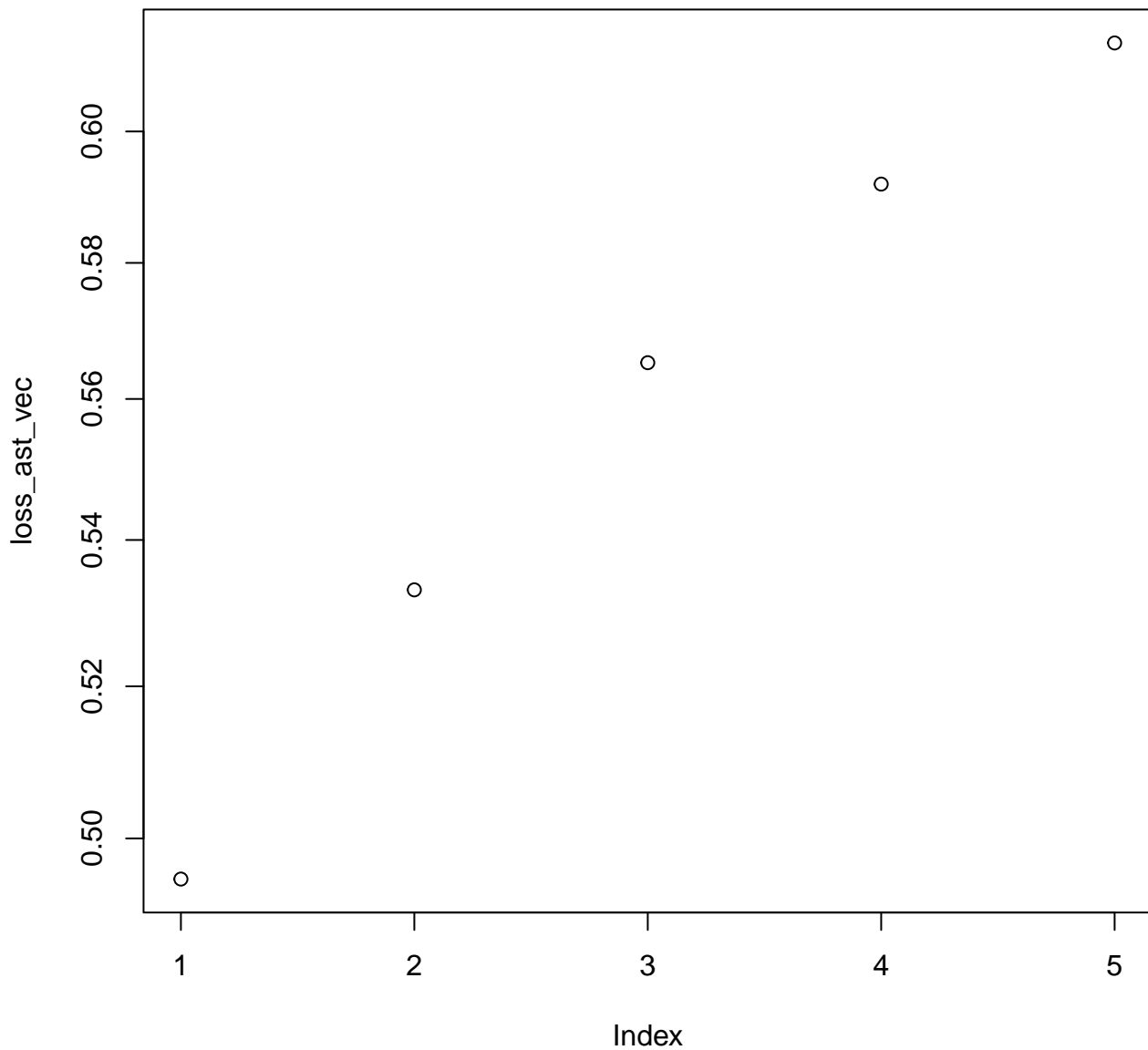




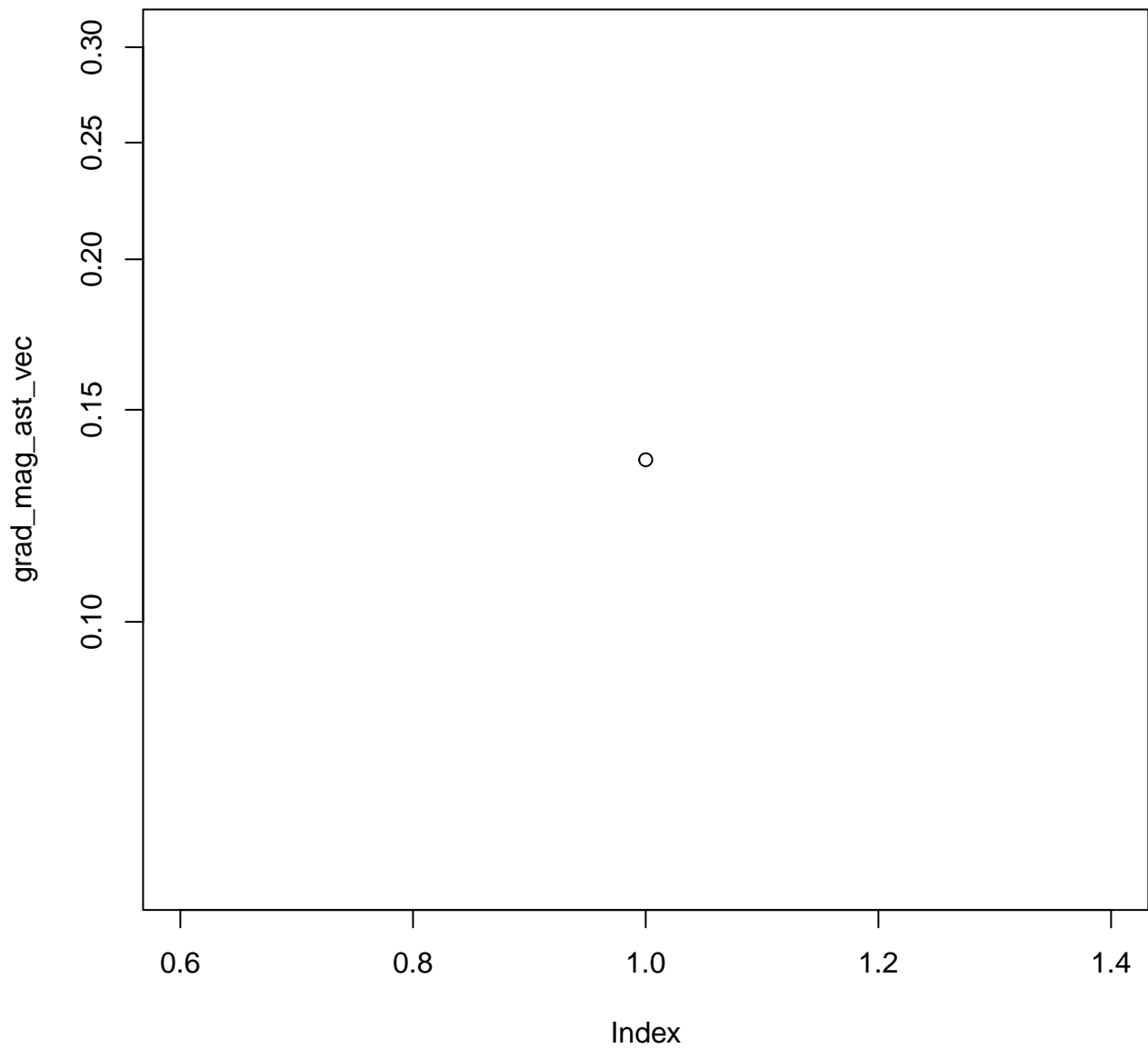
**Gradient Magnitude Evolution (ast)**



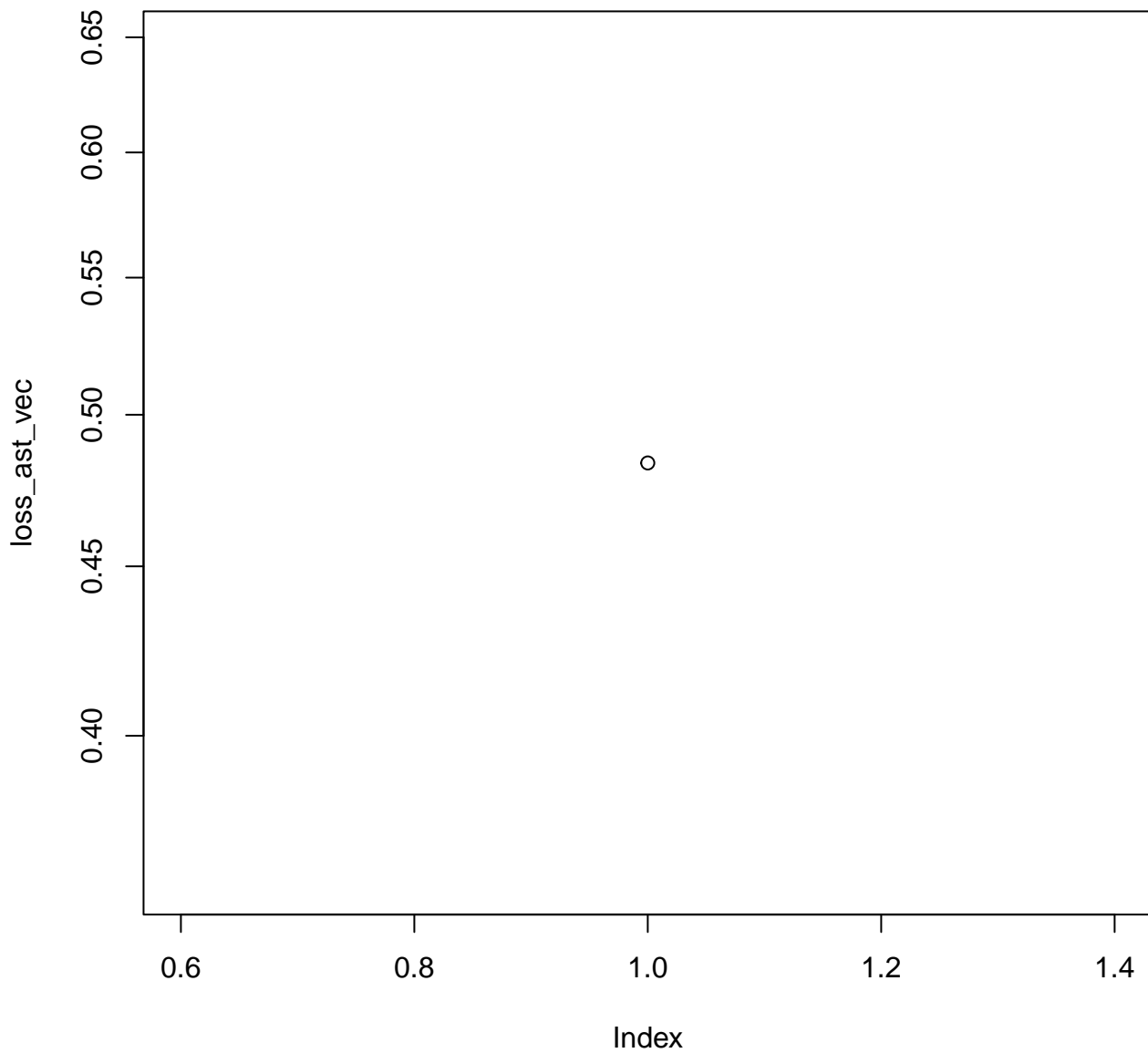
**Value (ast)**



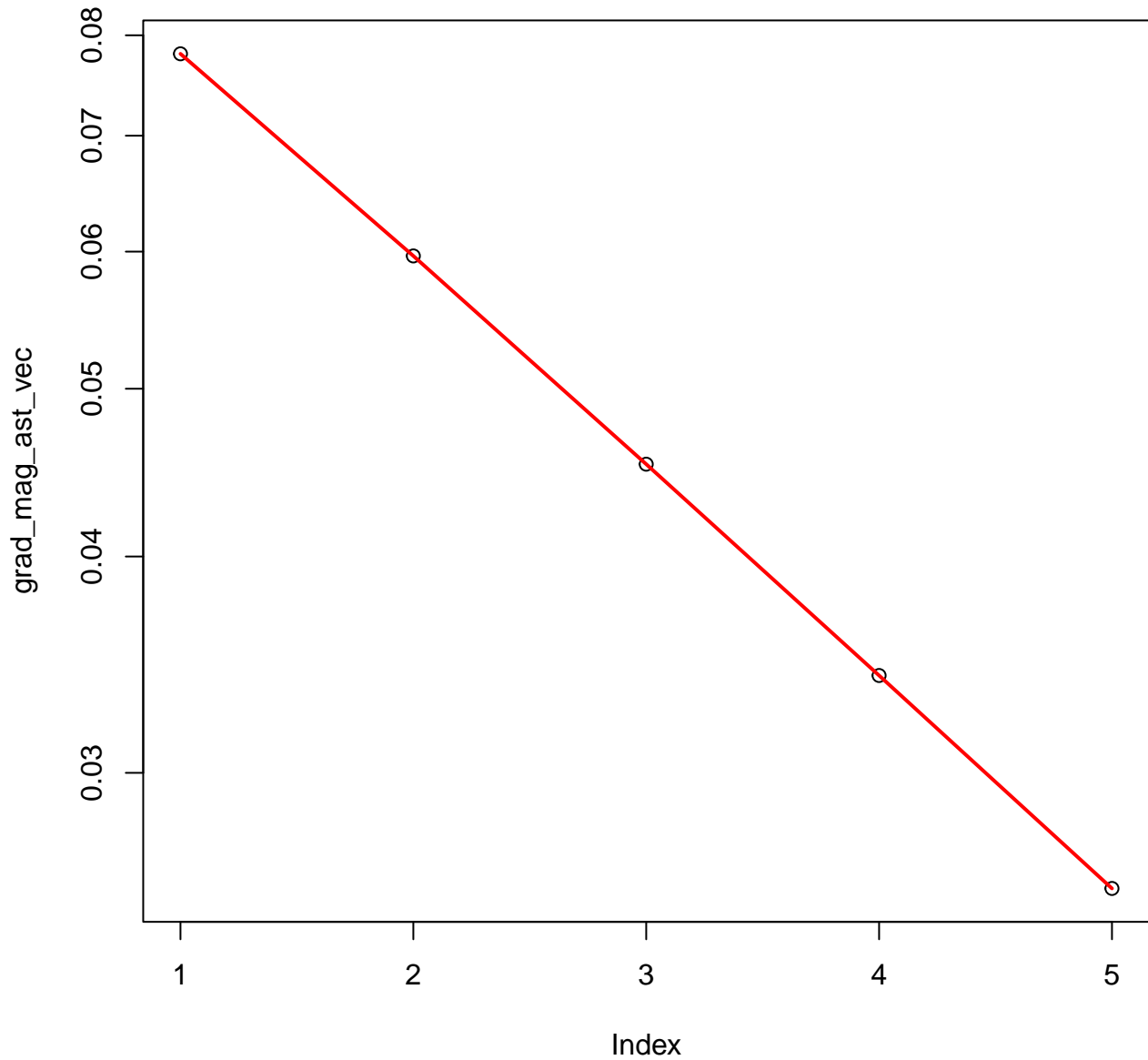
**Gradient Magnitude Evolution (ast)**



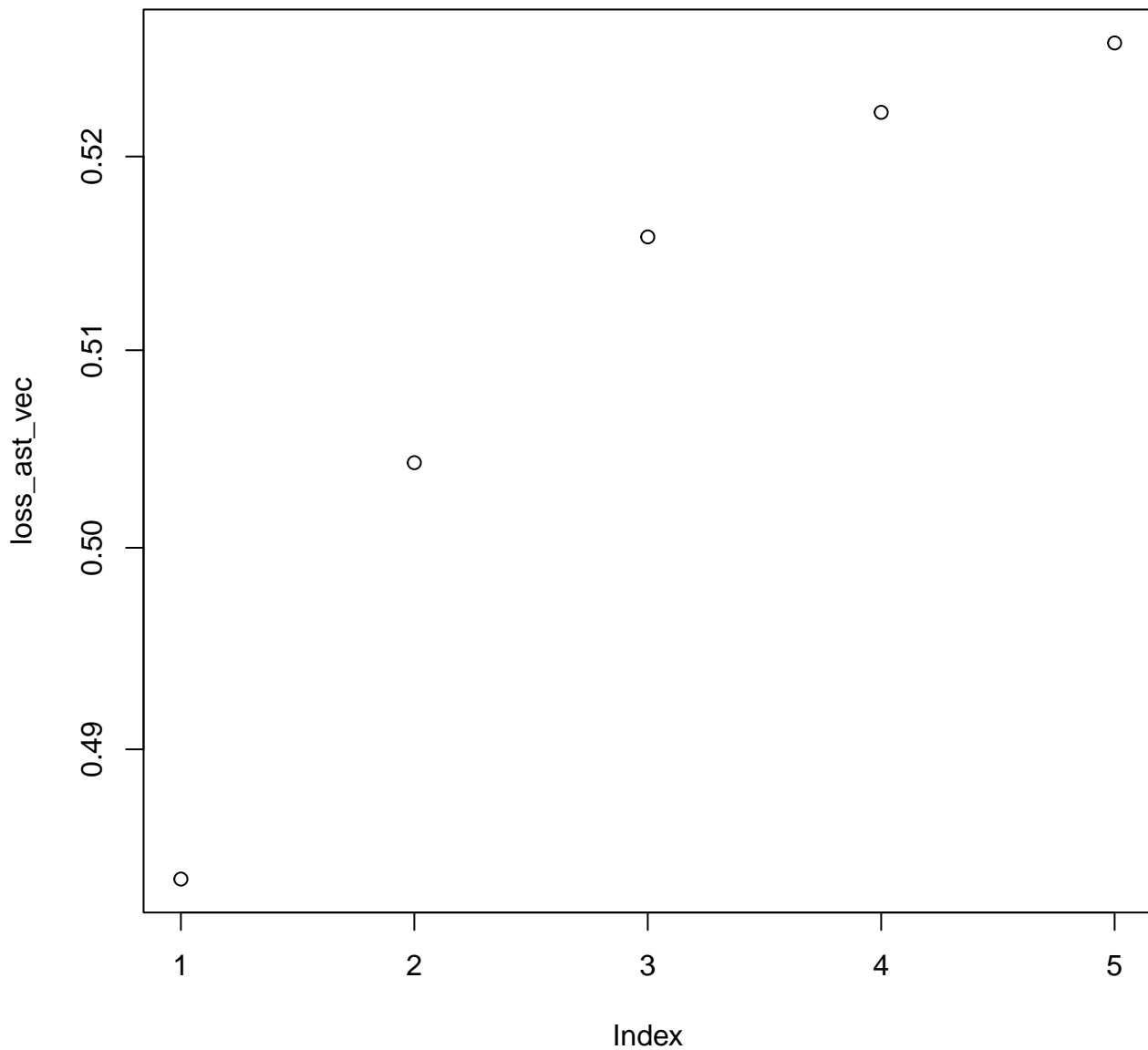
Value (ast)



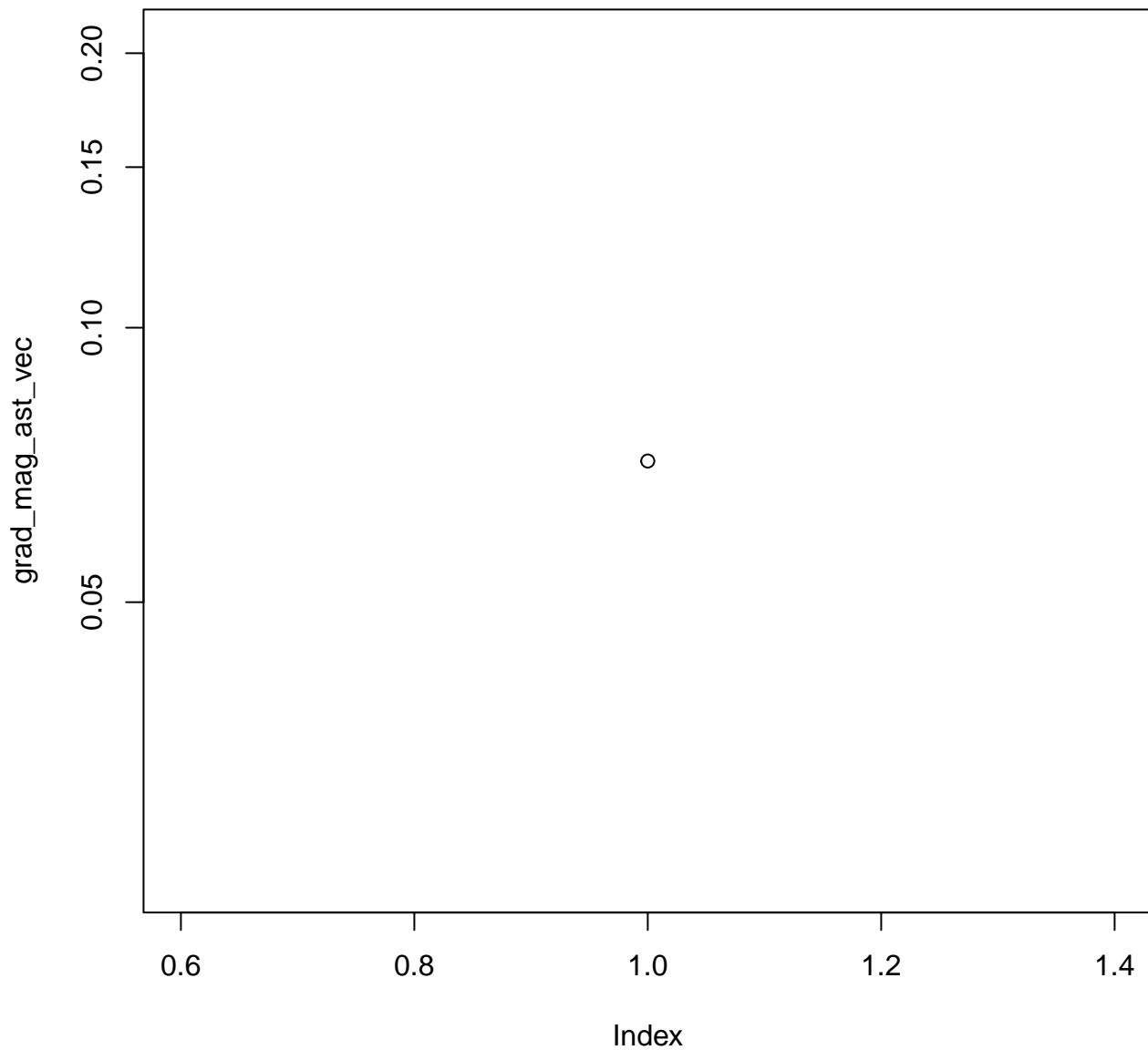
**Gradient Magnitude Evolution (ast)**



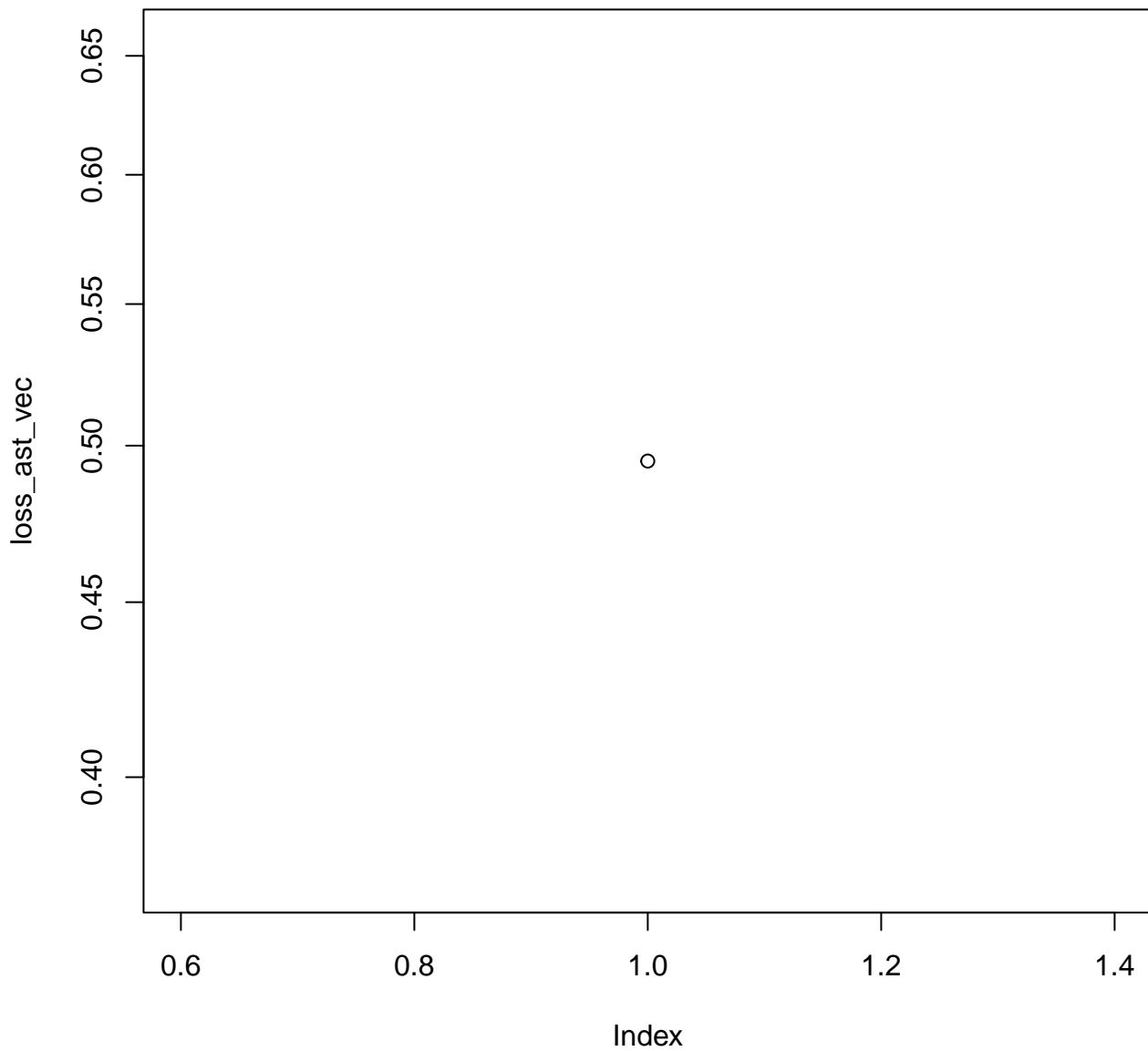
**Value (ast)**



**Gradient Magnitude Evolution (ast)**

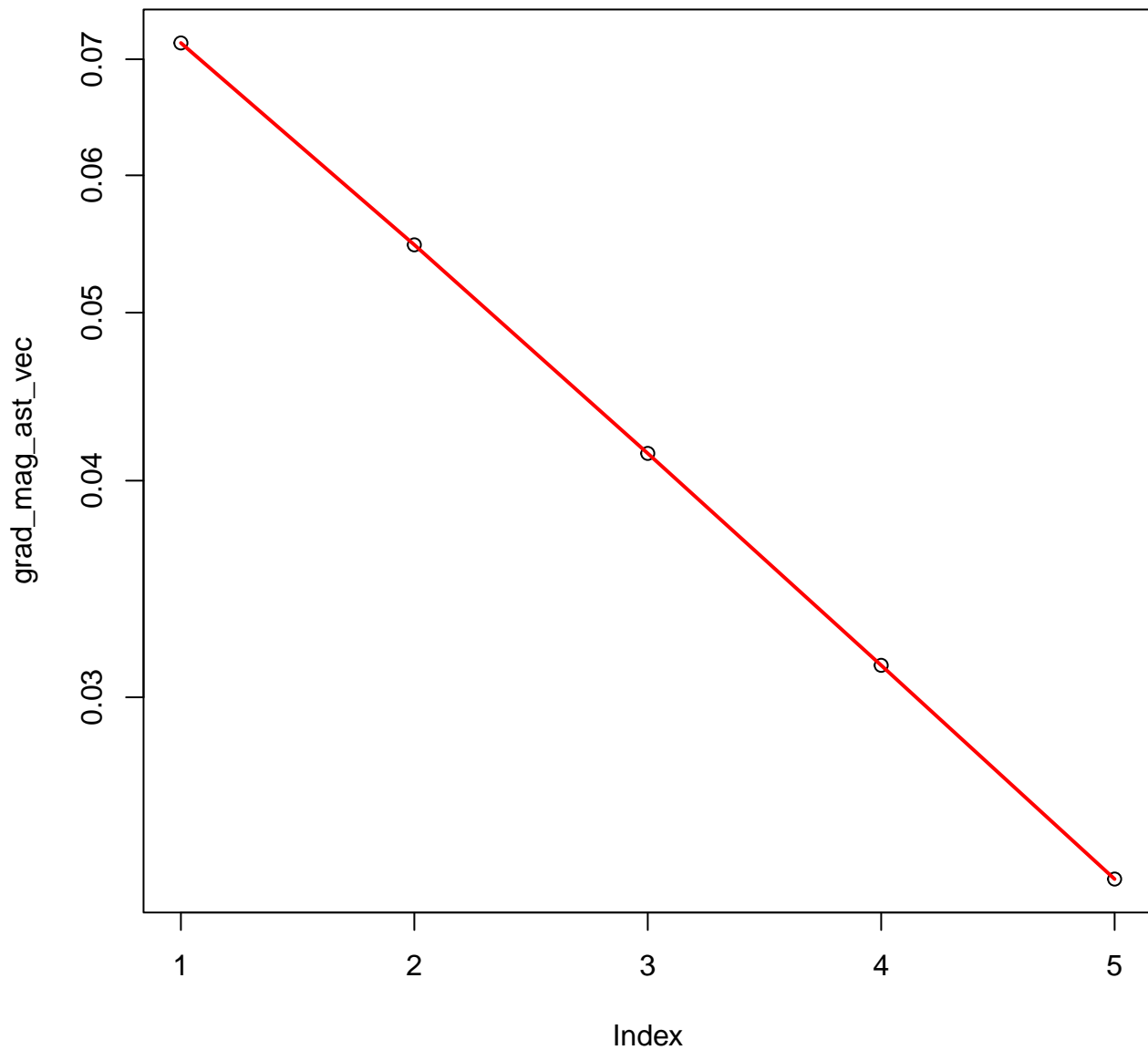


Value (ast)

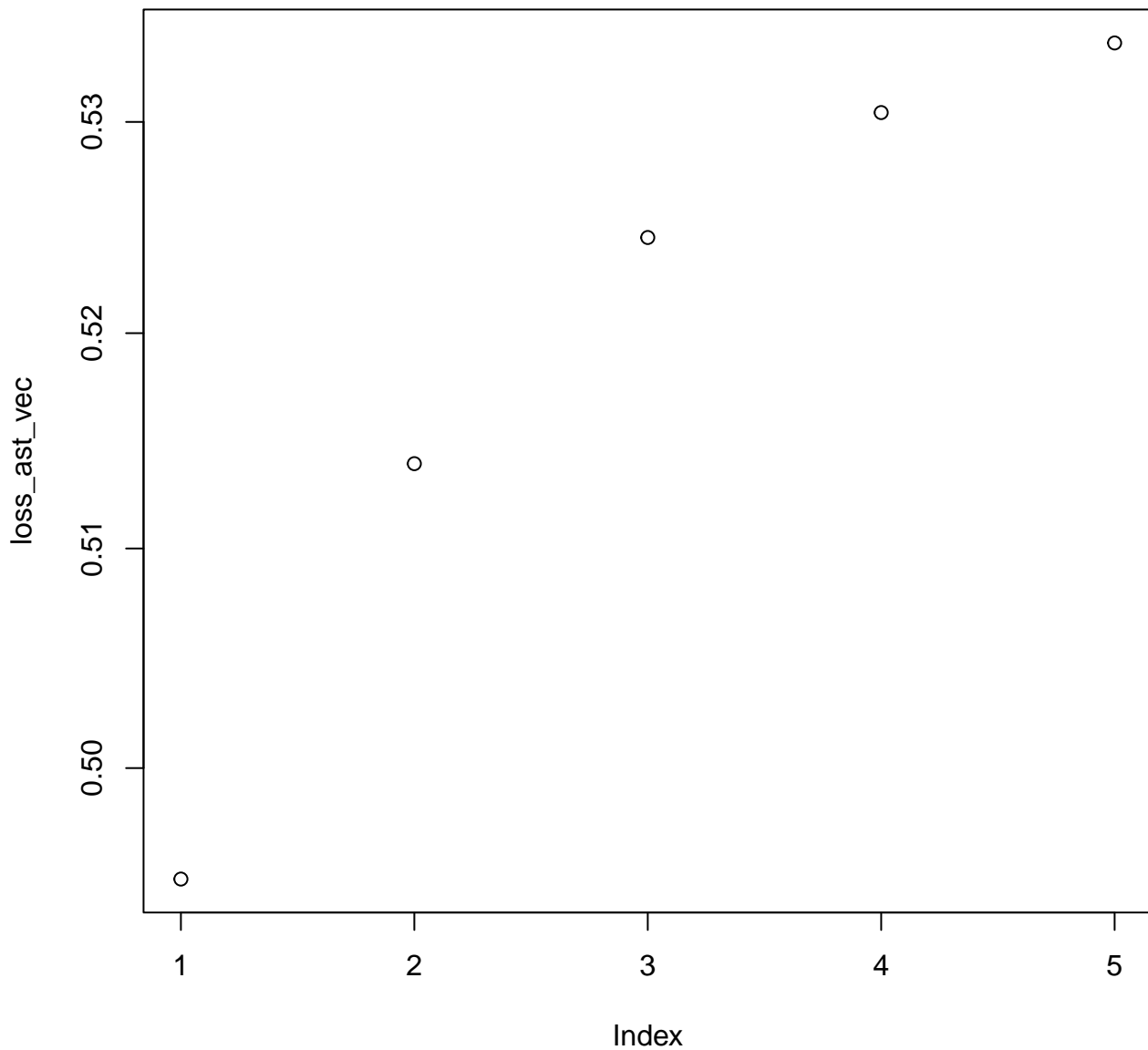




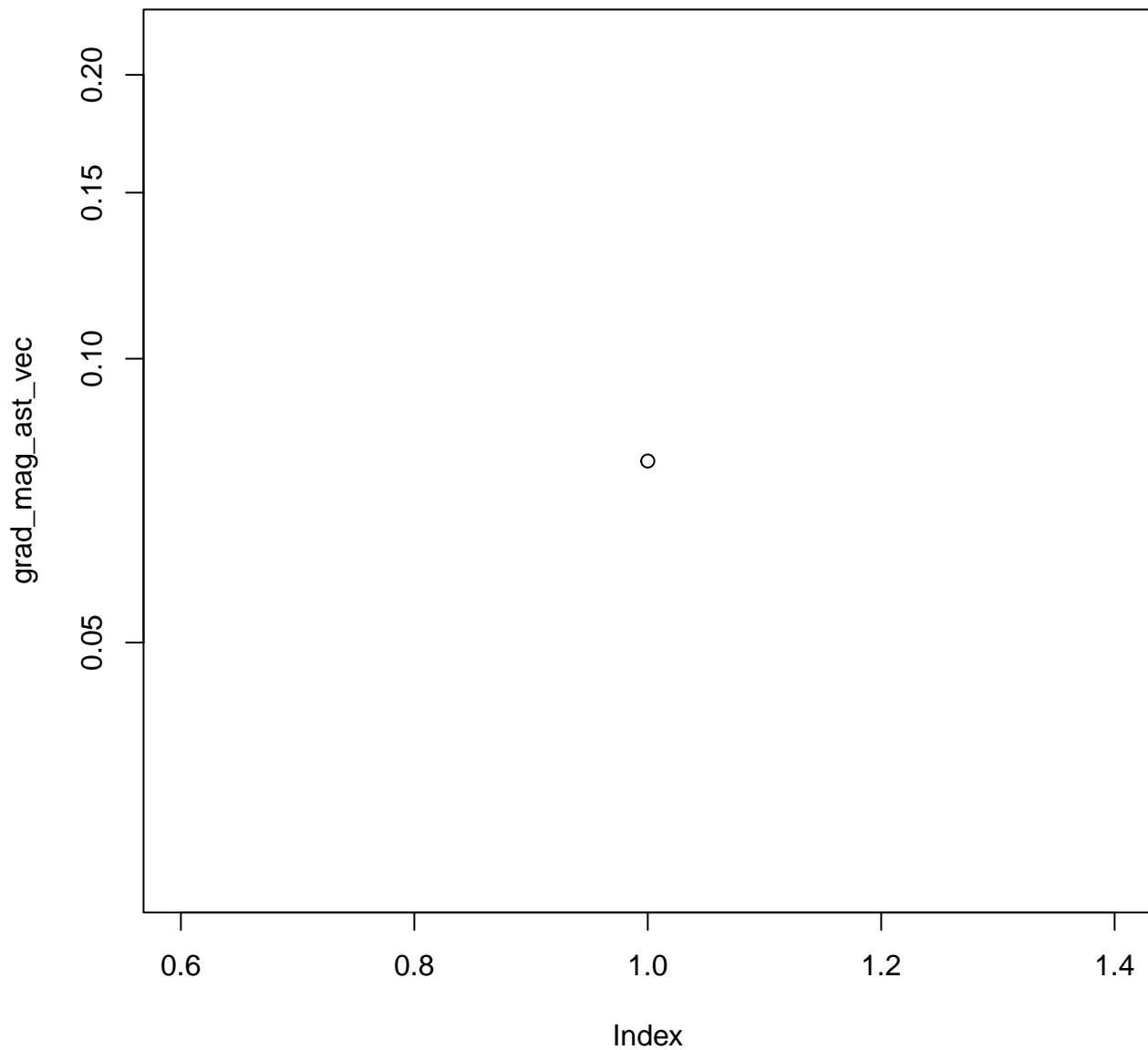
**Gradient Magnitude Evolution (ast)**



**Value (ast)**



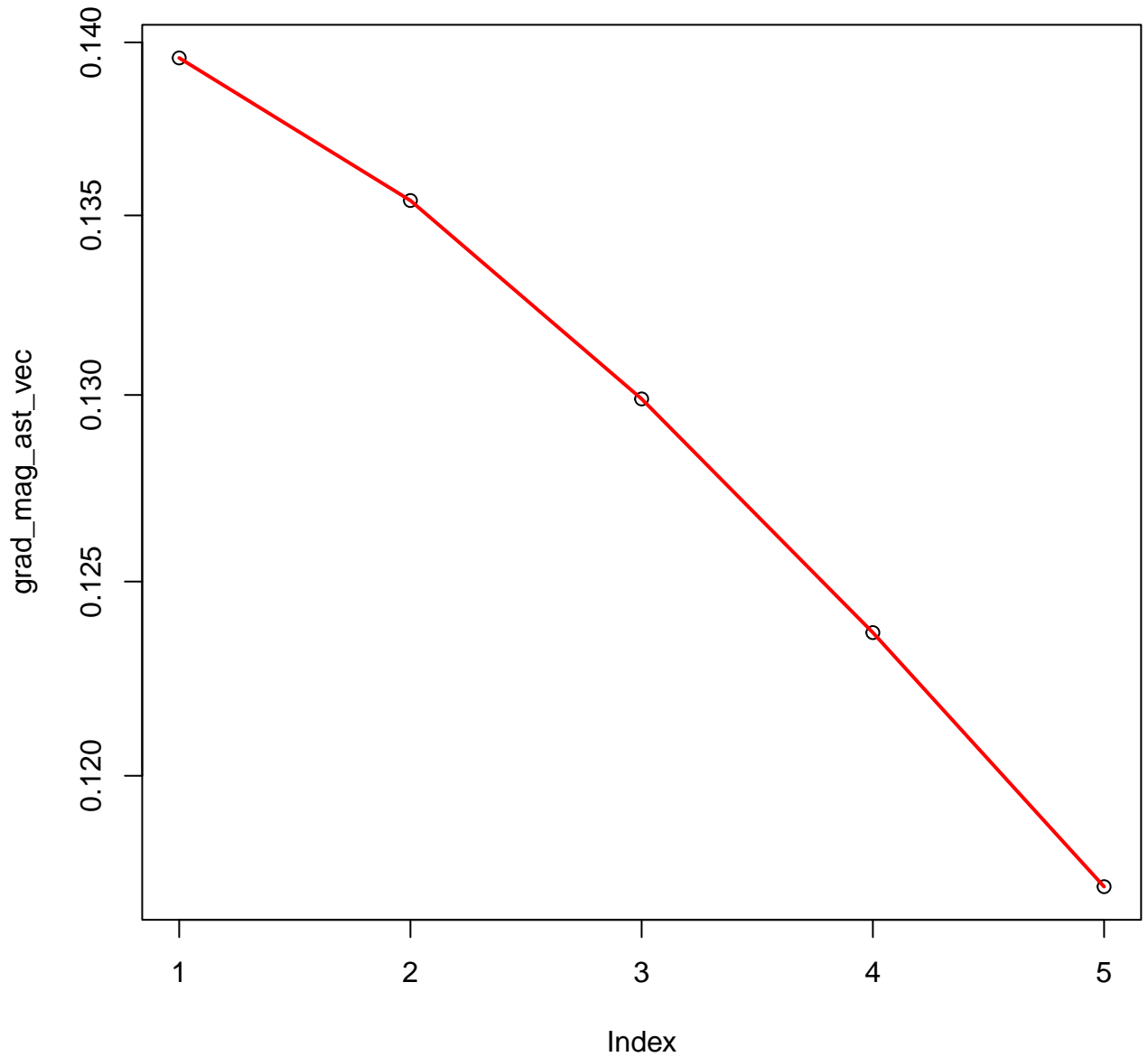
**Gradient Magnitude Evolution (ast)**



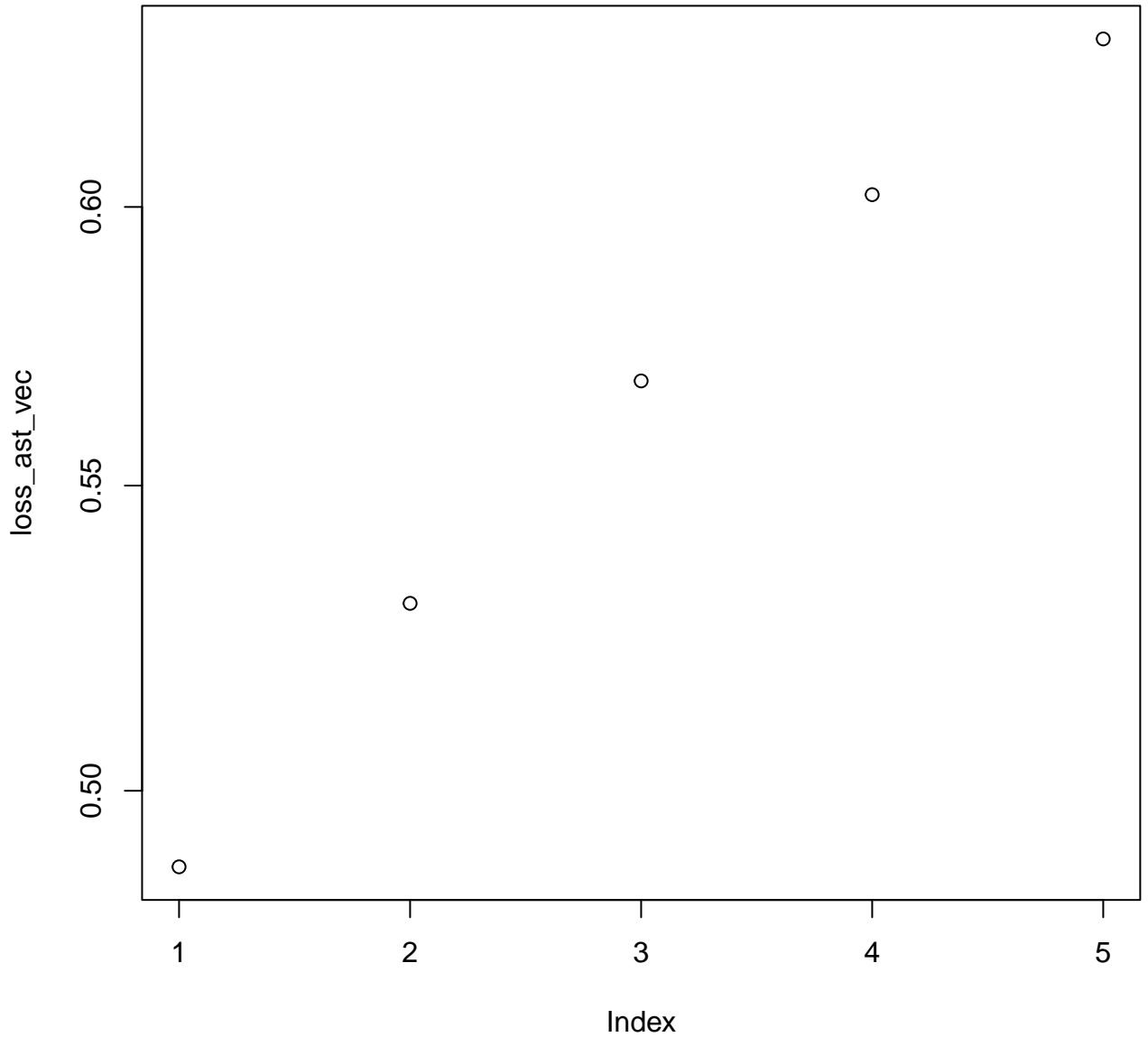
Value (ast)



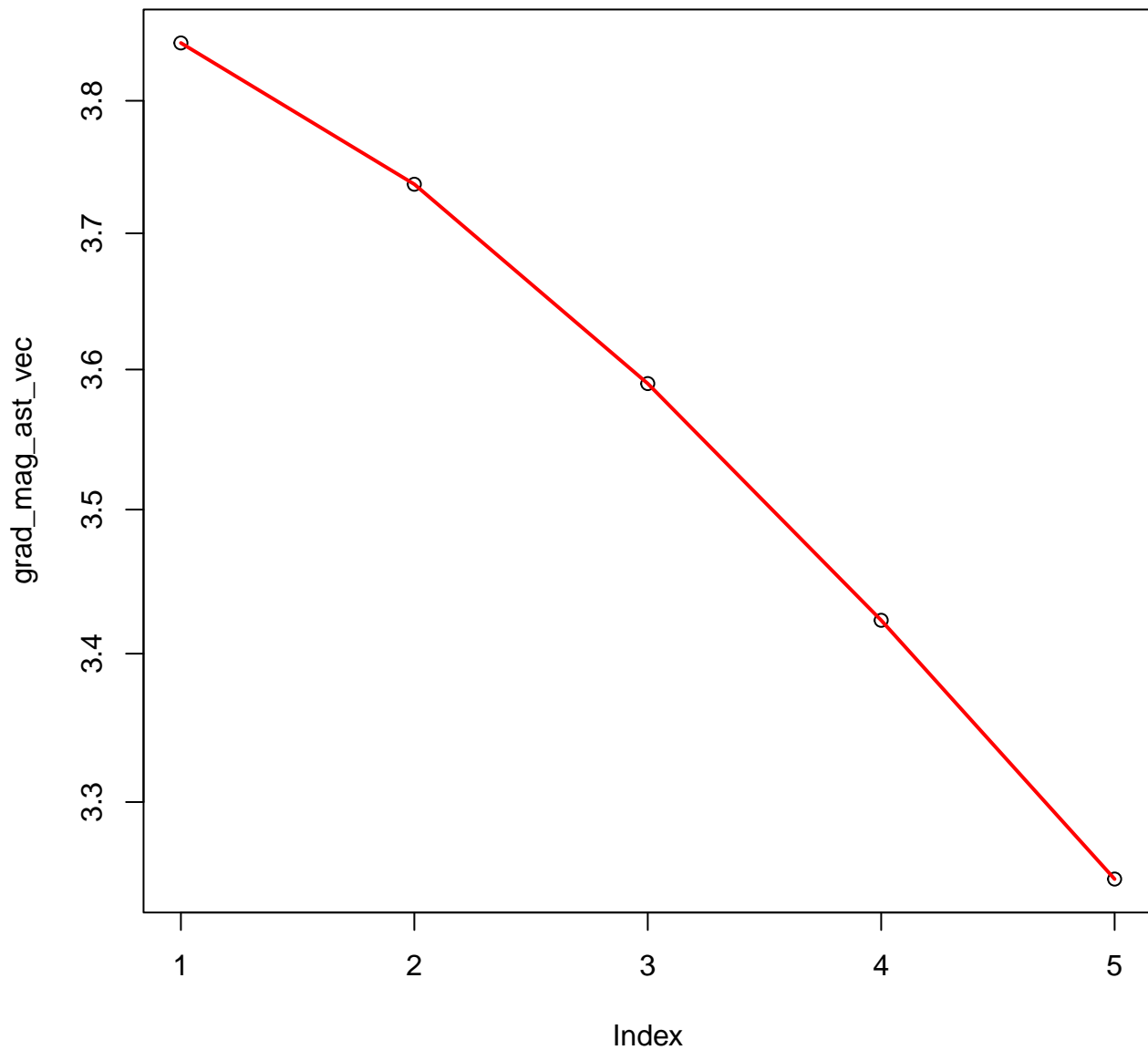
**Gradient Magnitude Evolution (ast)**



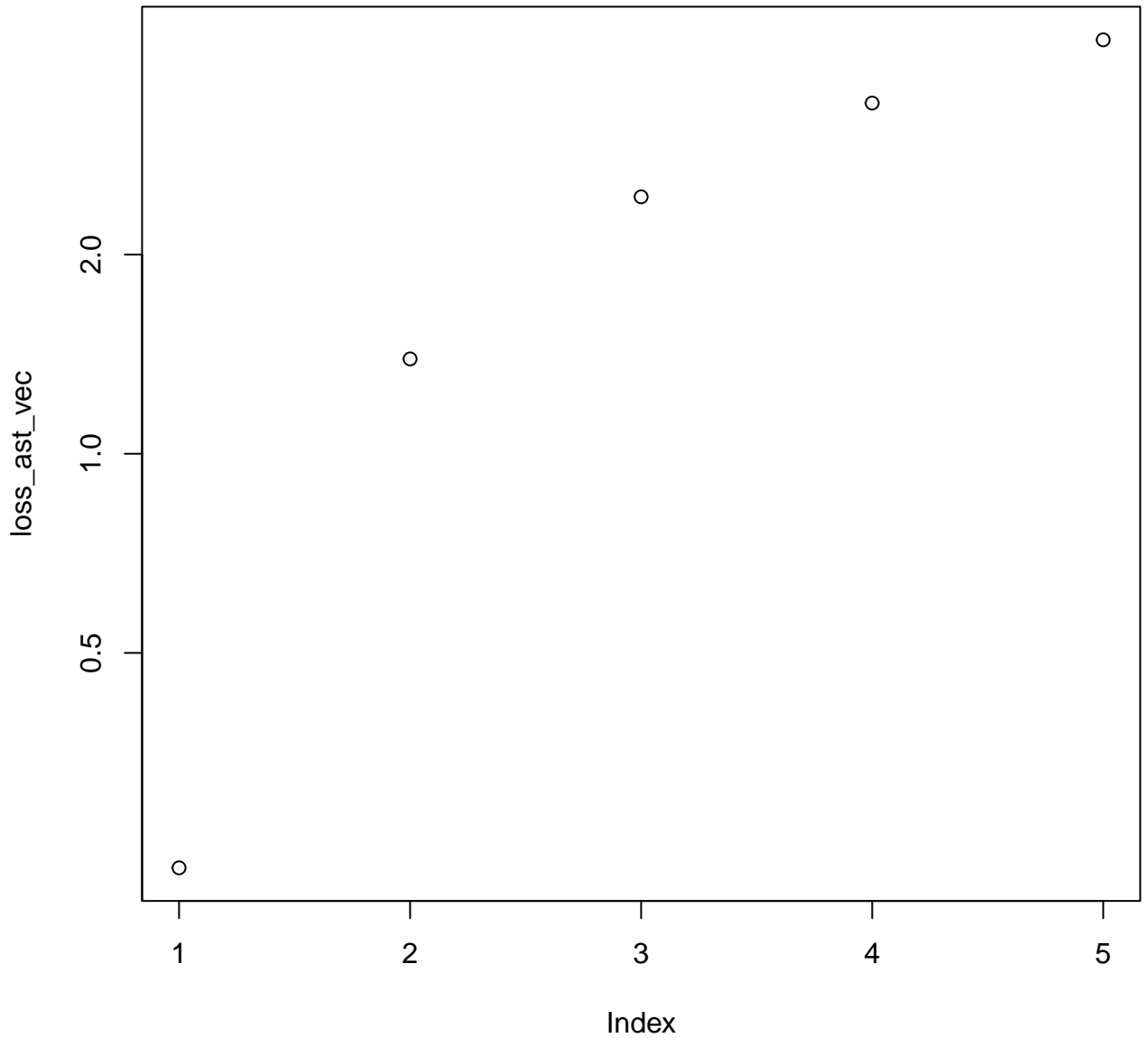
**Value (ast)**



**Gradient Magnitude Evolution (ast)**

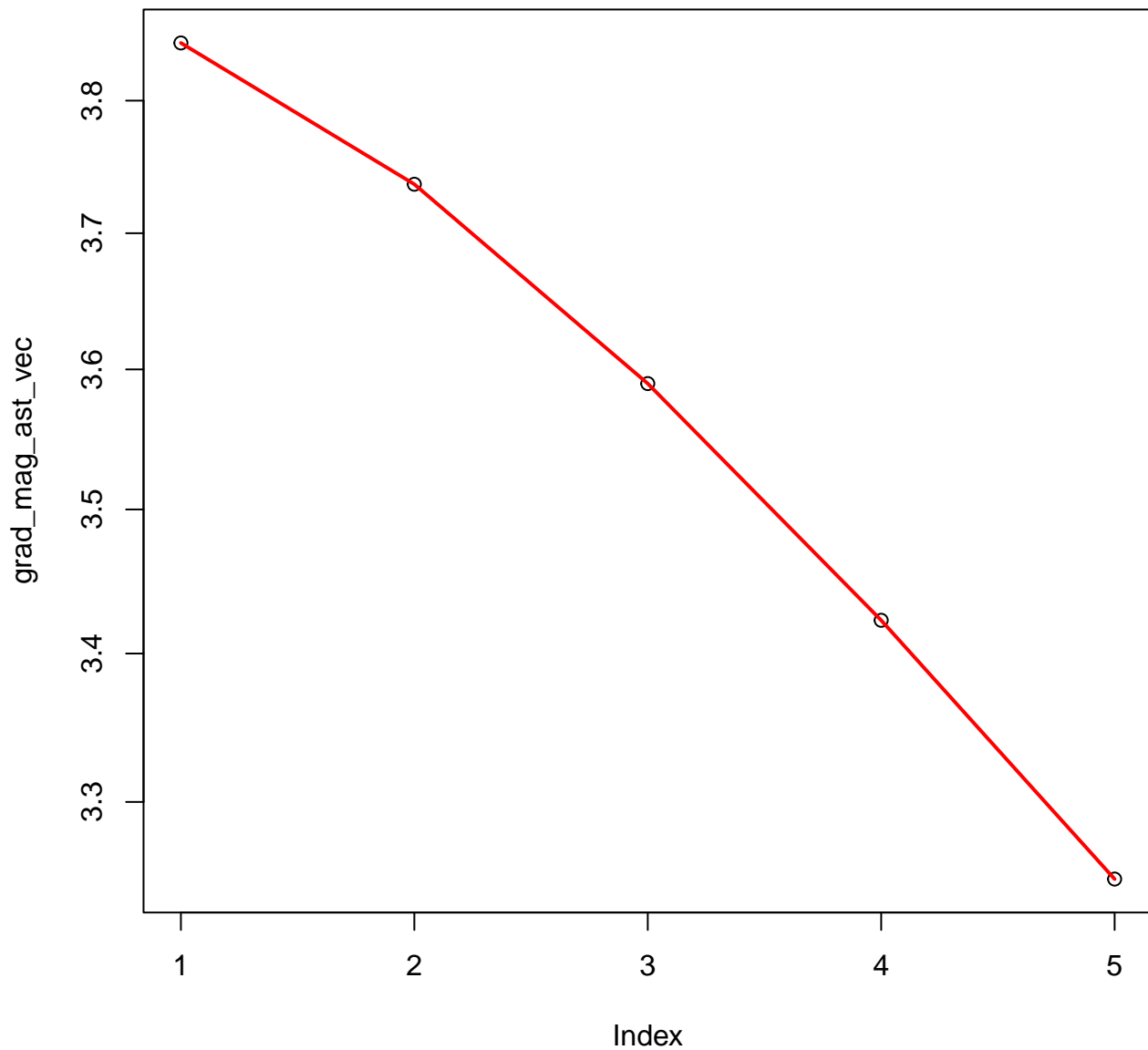


**Value (ast)**

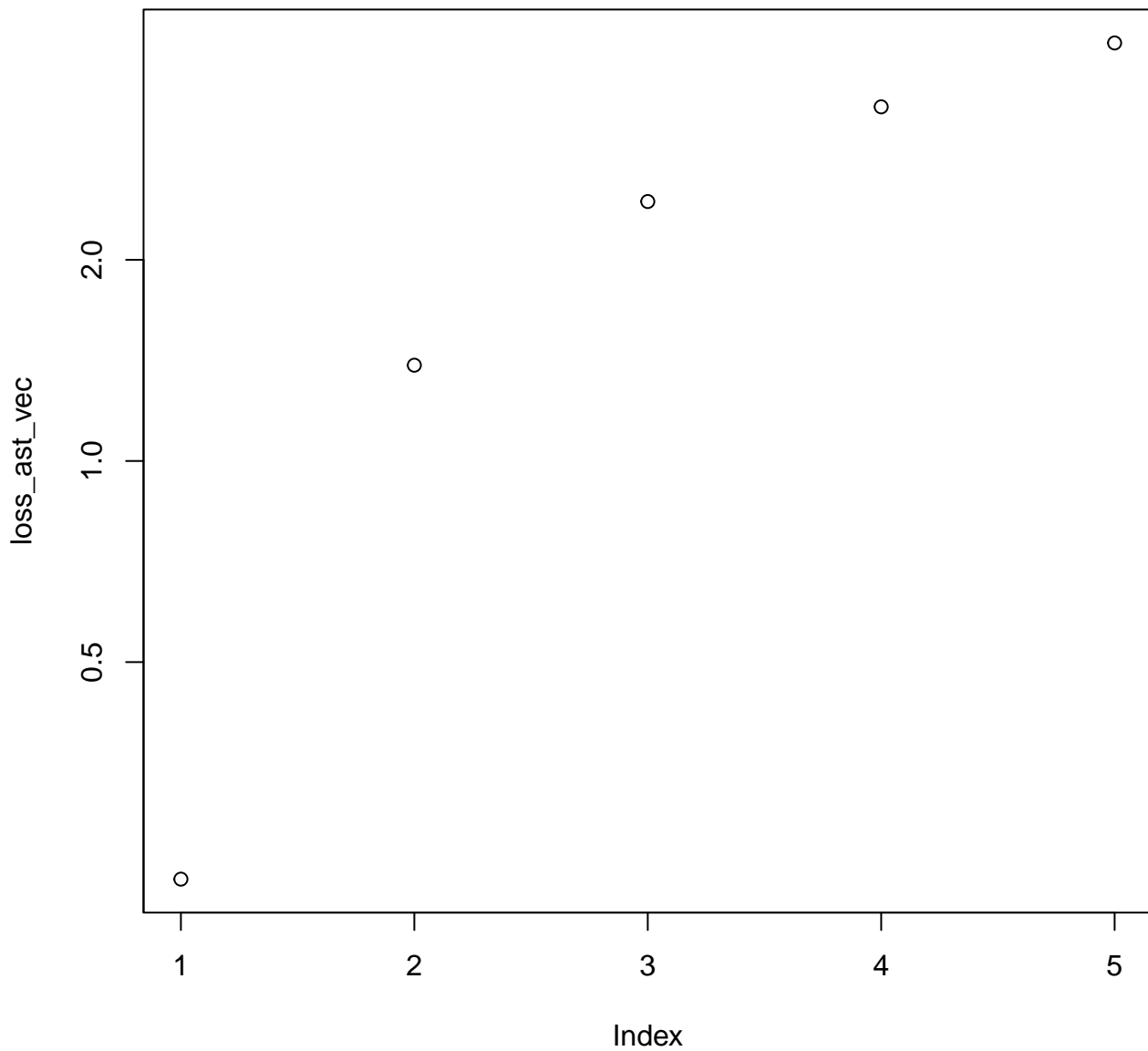




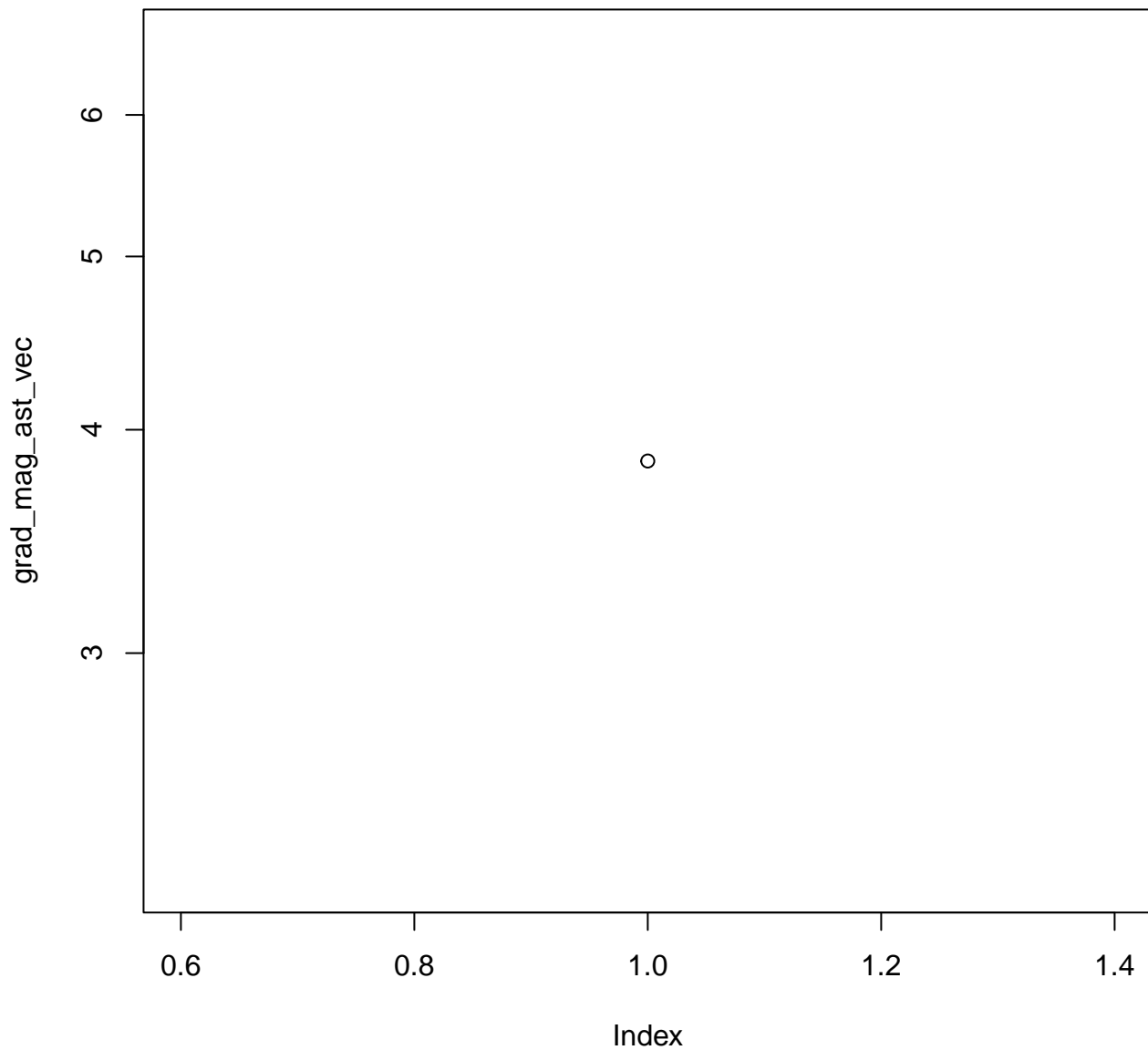
**Gradient Magnitude Evolution (ast)**



**Value (ast)**

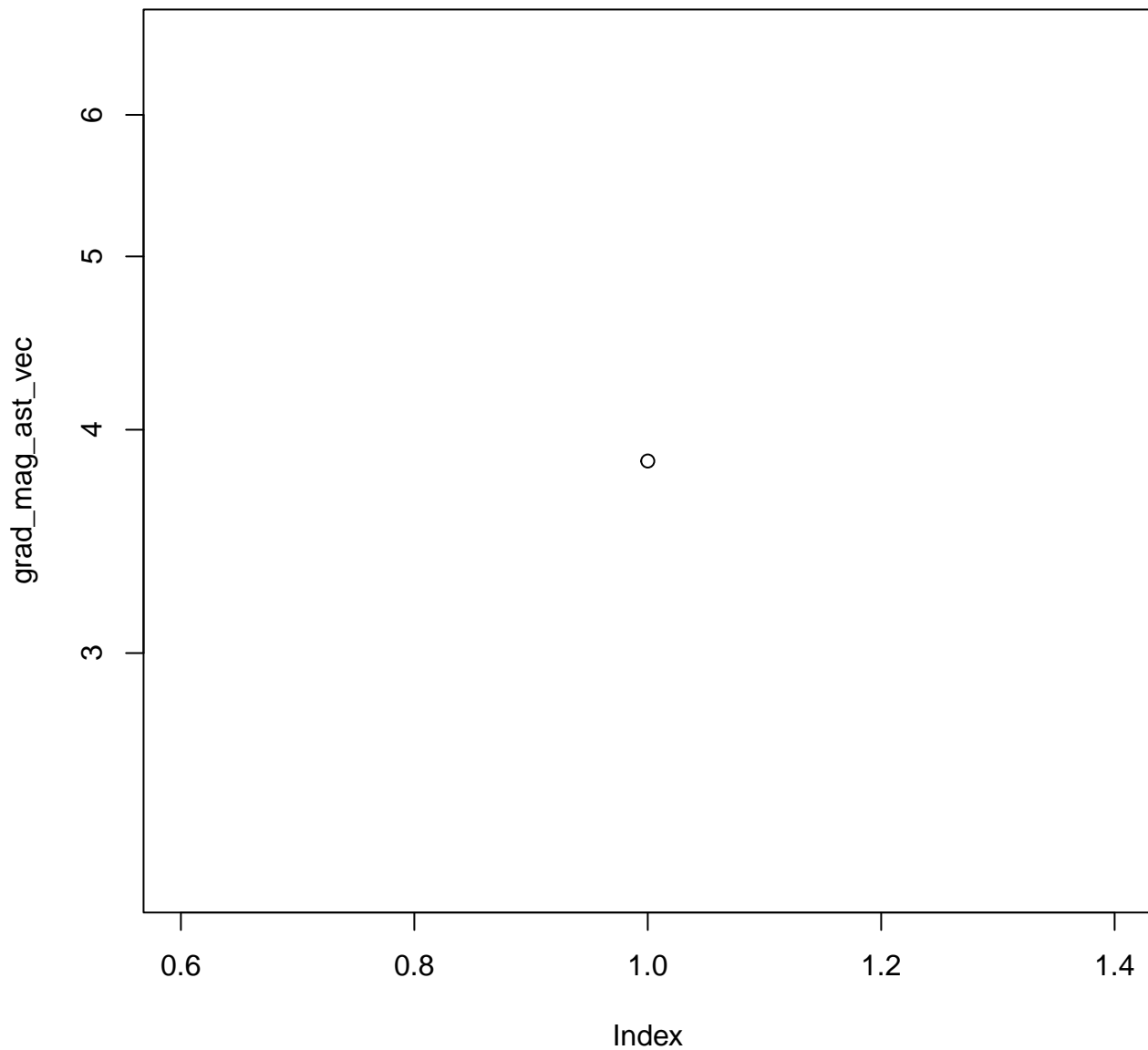


**Gradient Magnitude Evolution (ast)**



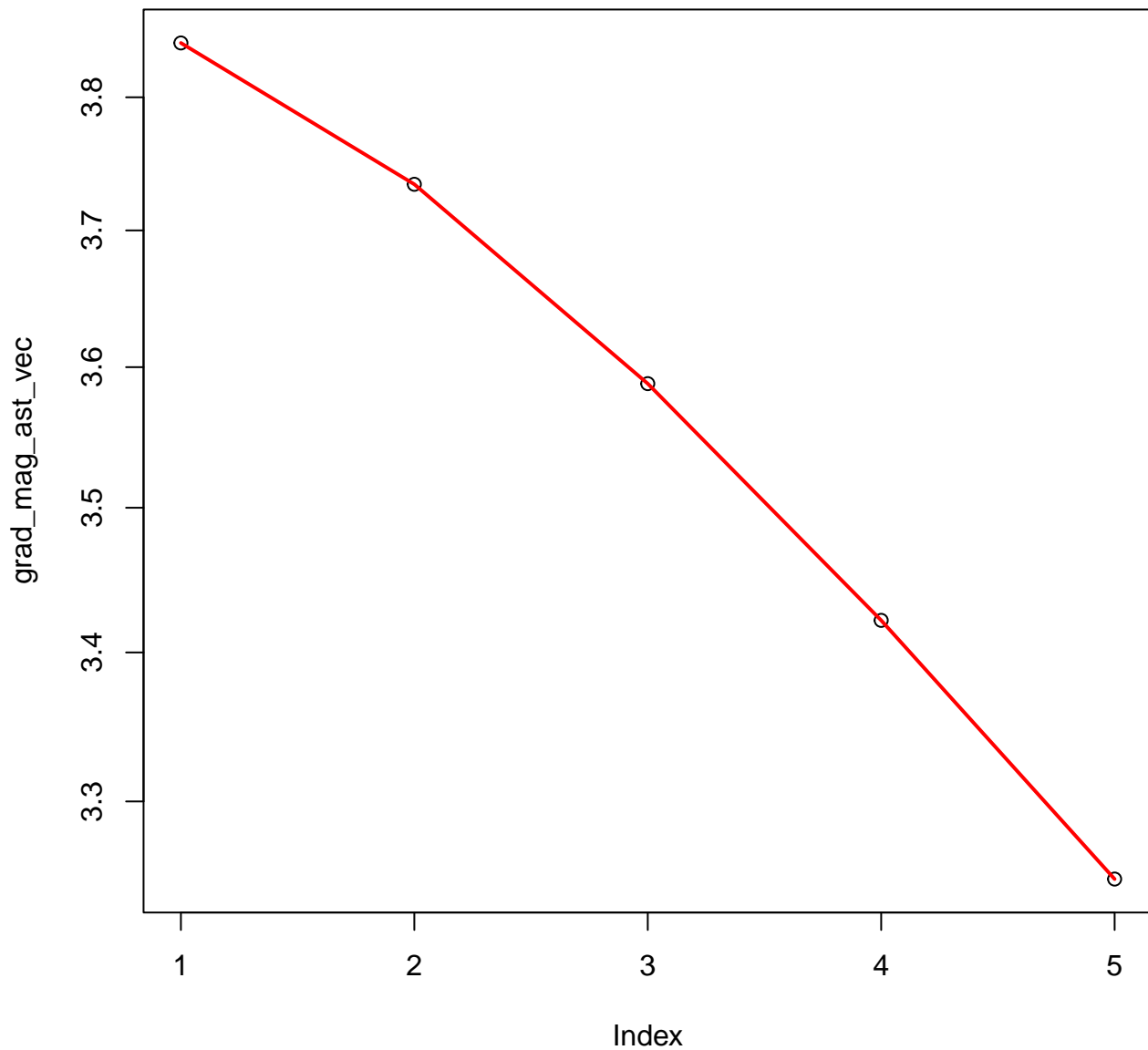


**Gradient Magnitude Evolution (ast)**

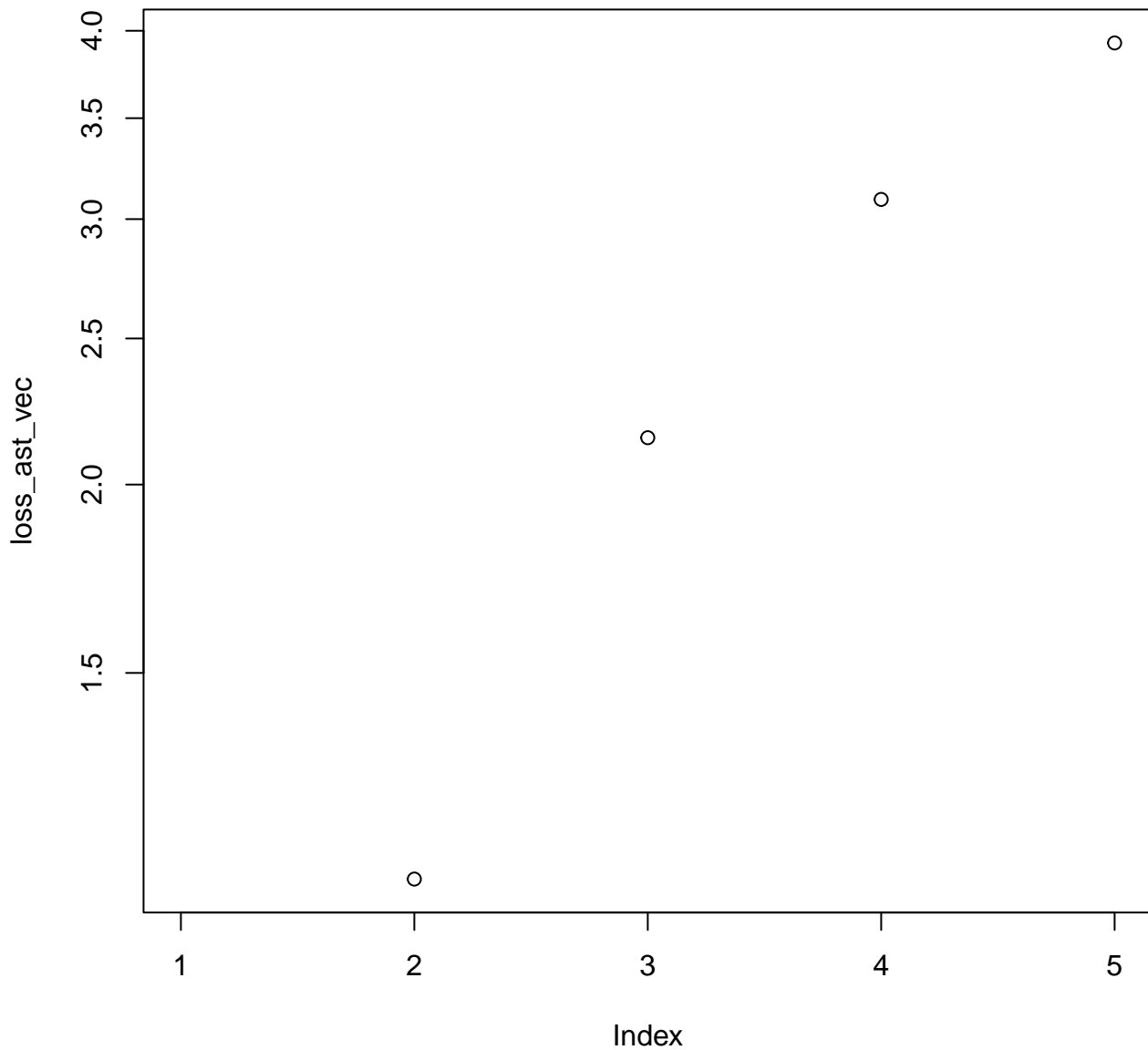




**Gradient Magnitude Evolution (ast)**

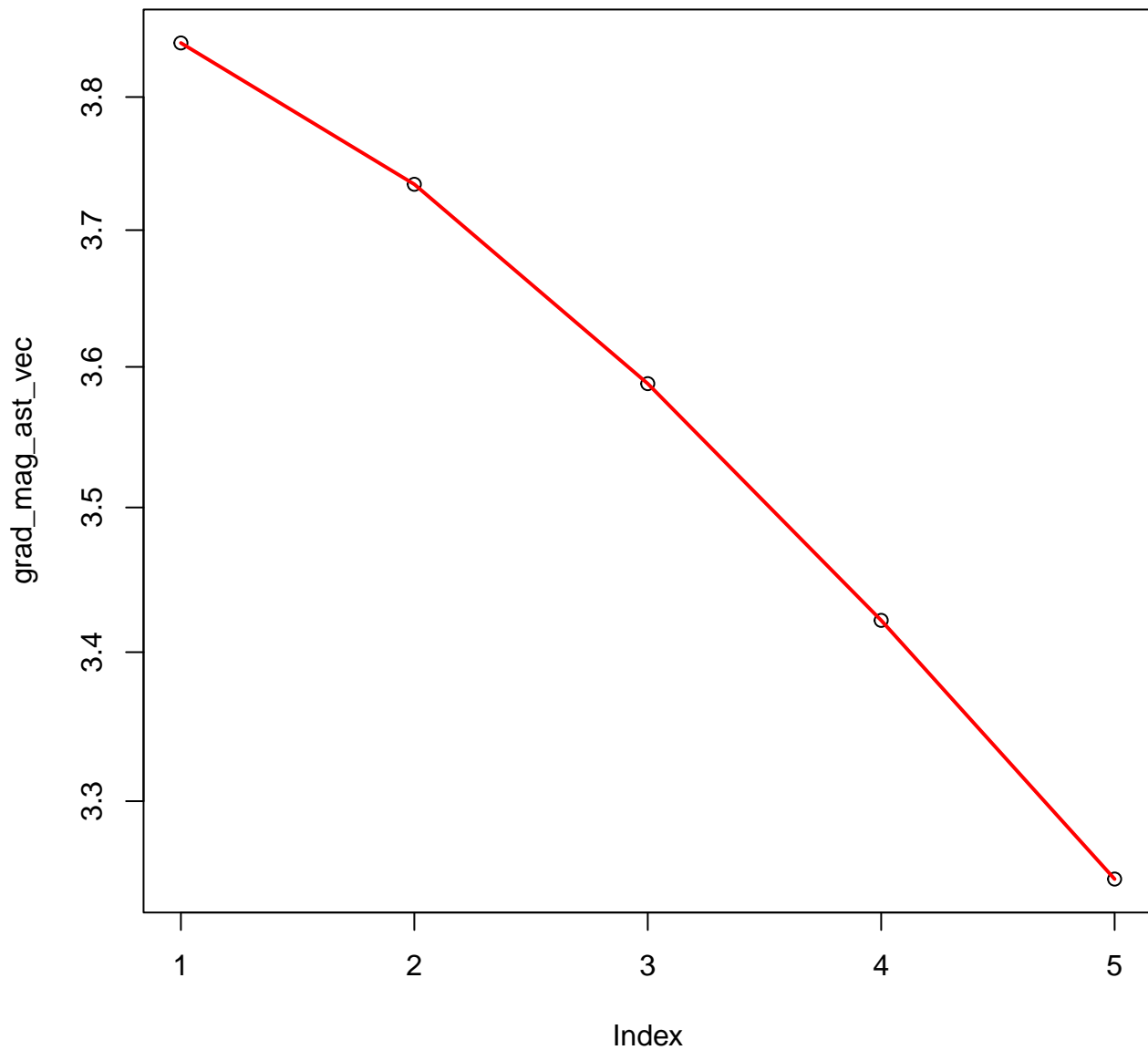


**Value (ast)**

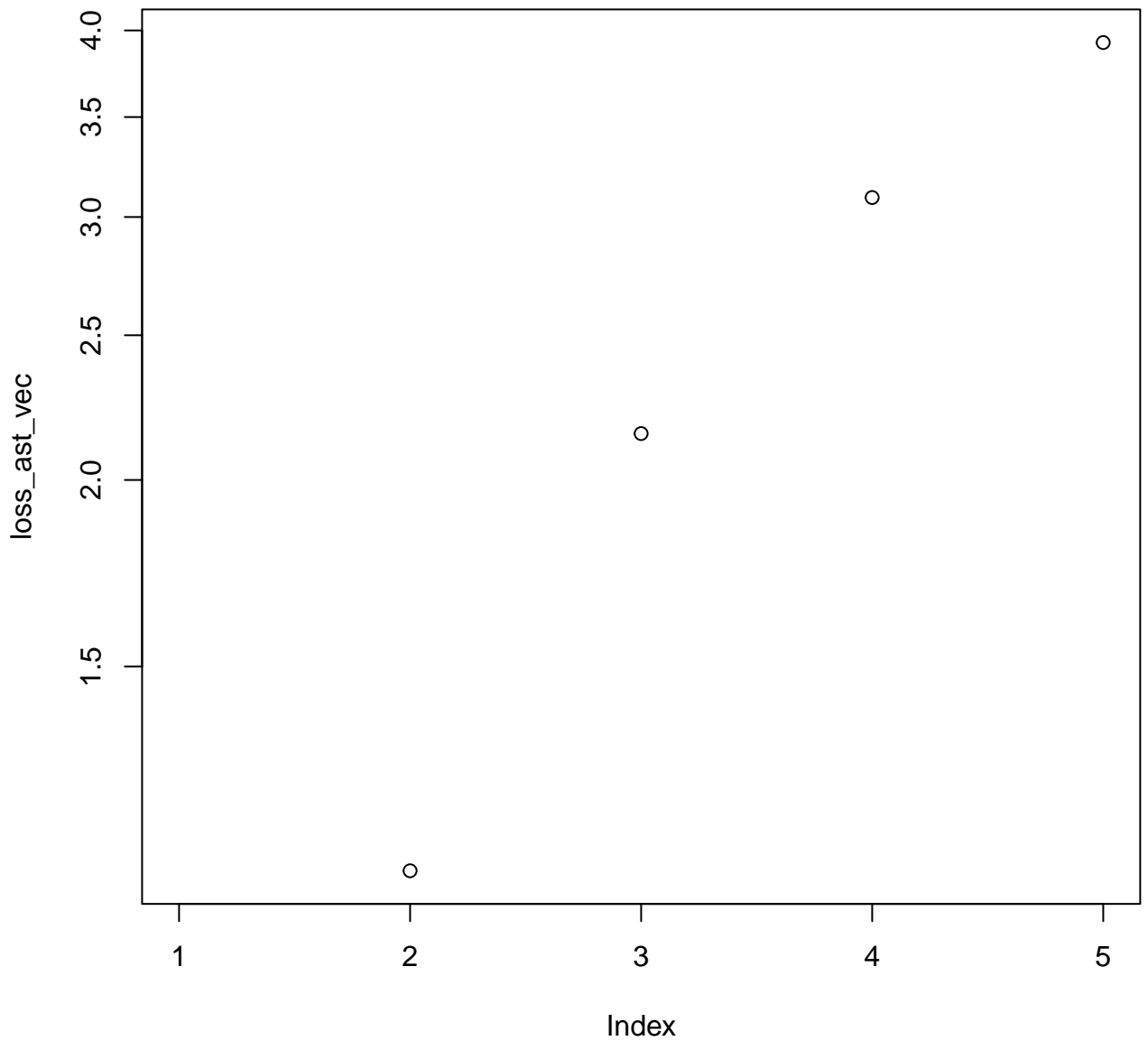




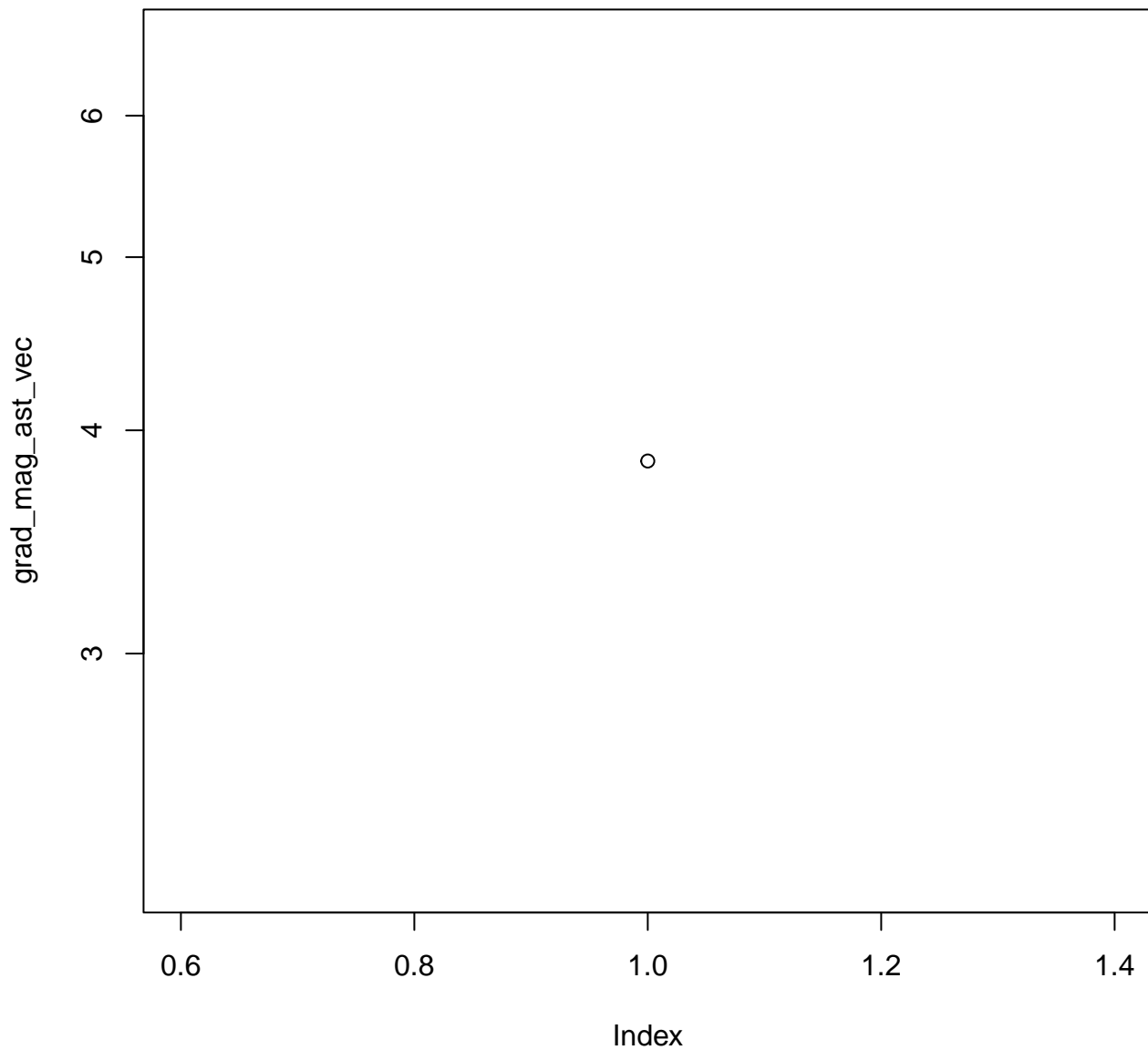
**Gradient Magnitude Evolution (ast)**



**Value (ast)**



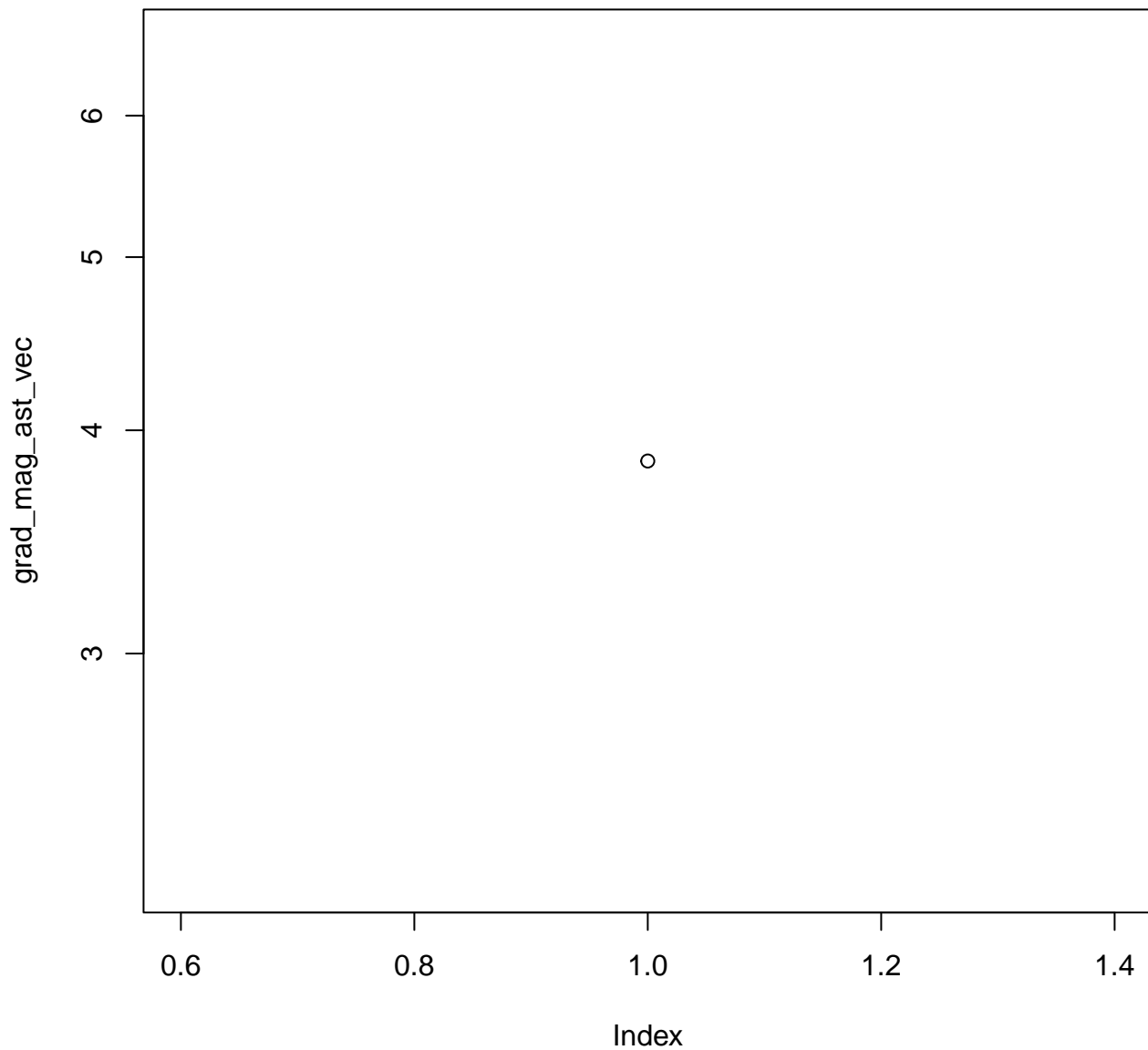
**Gradient Magnitude Evolution (ast)**



Value (ast)



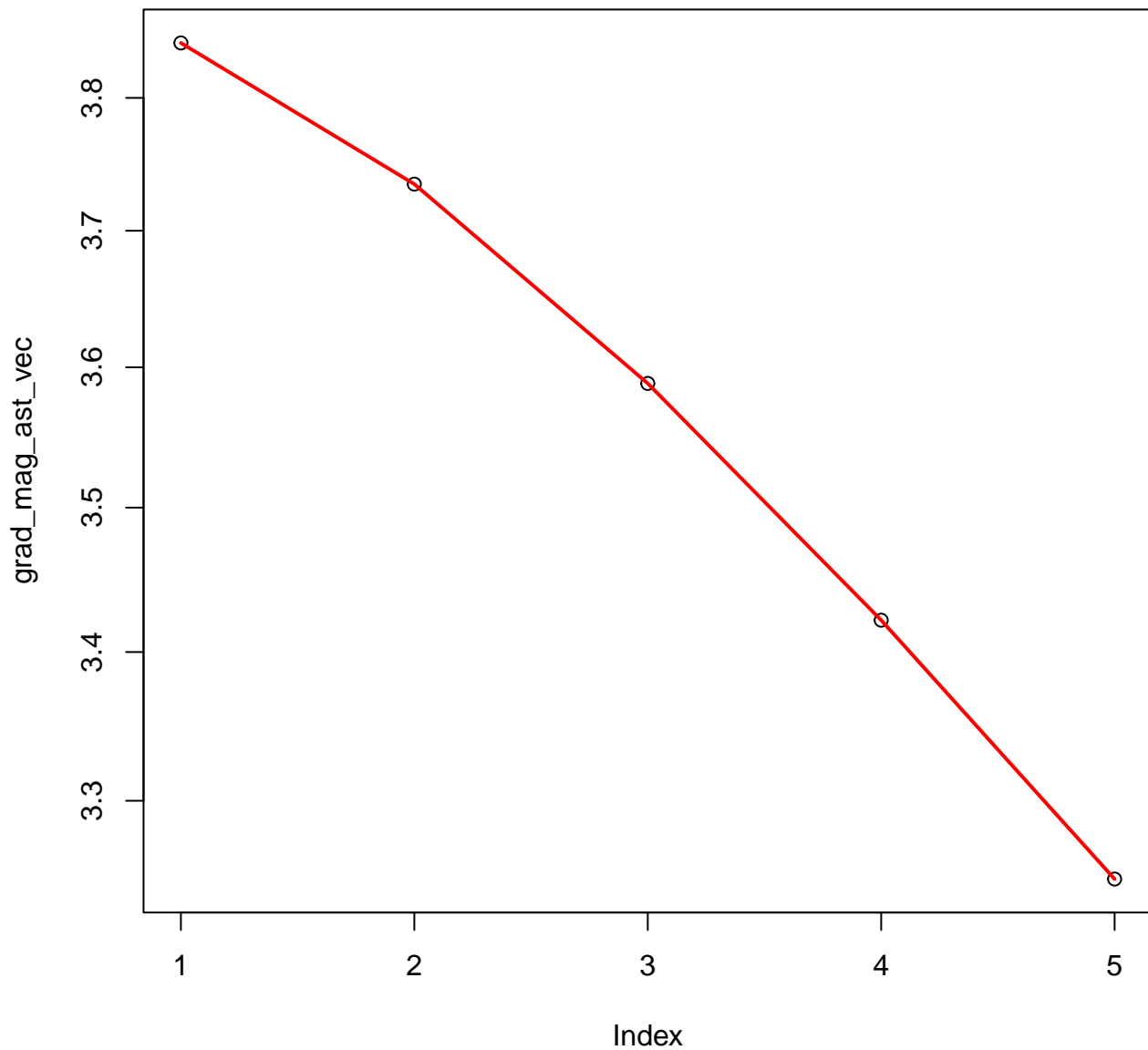
## Gradient Magnitude Evolution (ast)



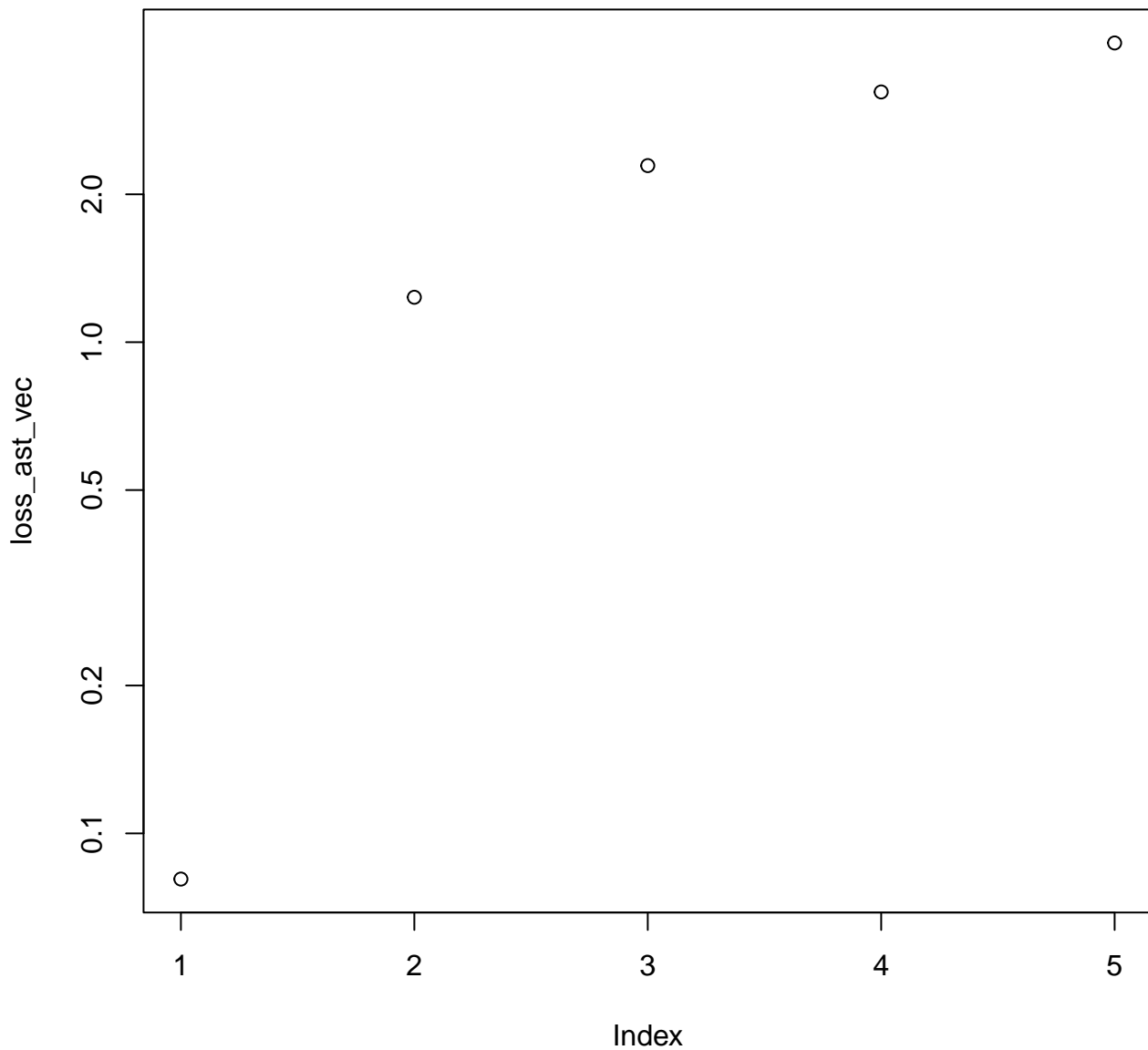
Value (ast)



**Gradient Magnitude Evolution (ast)**

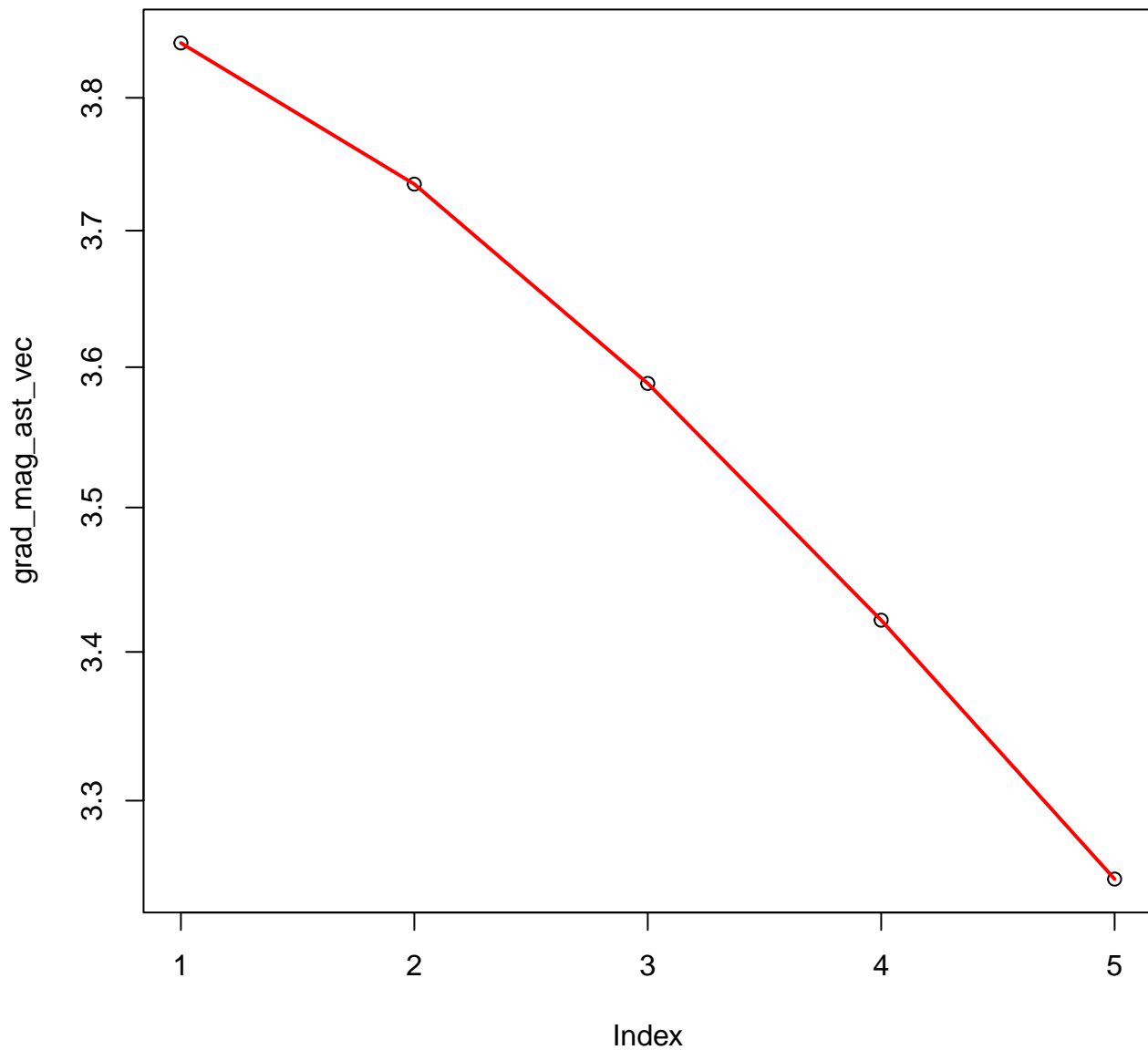


**Value (ast)**

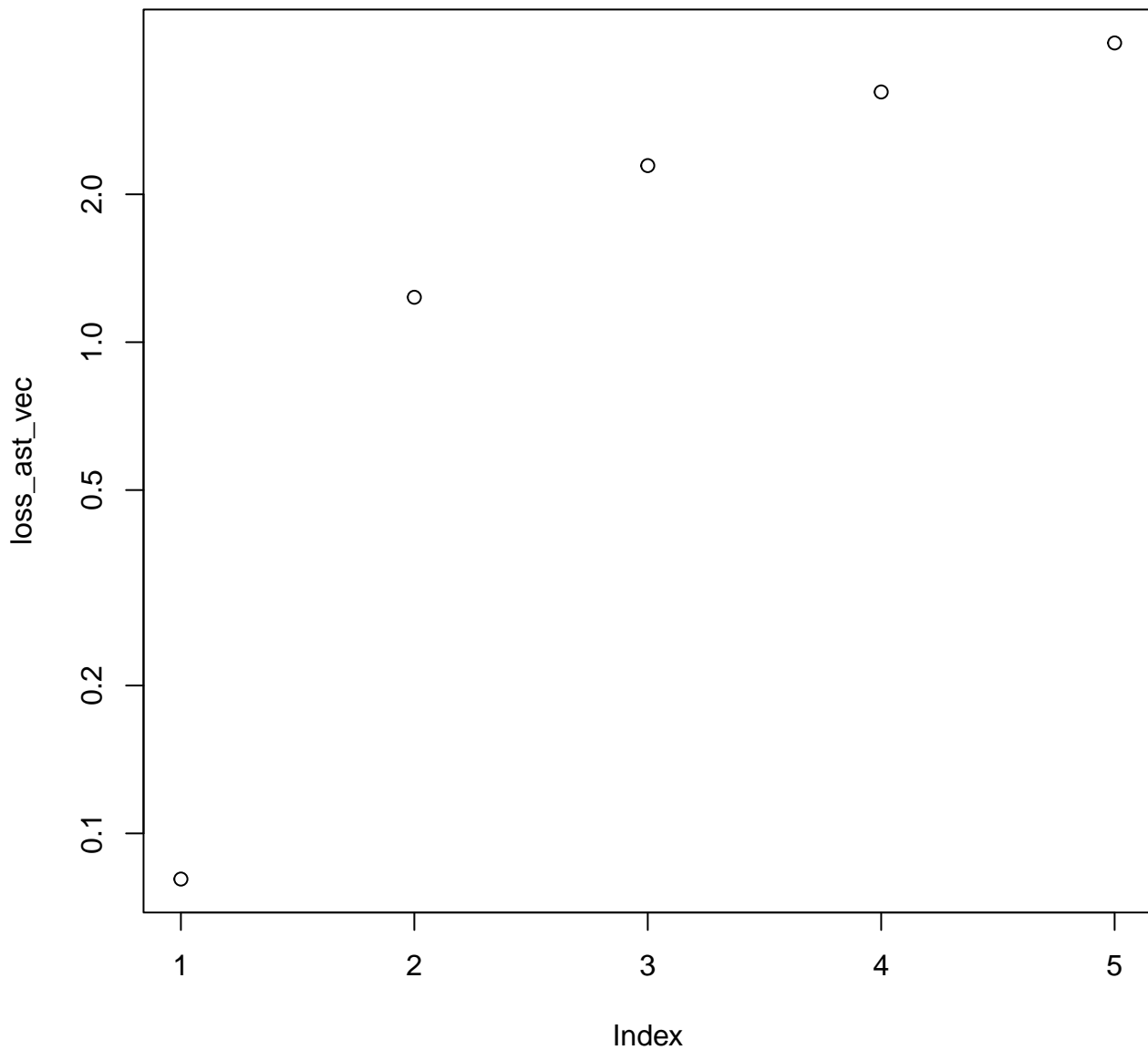




**Gradient Magnitude Evolution (ast)**



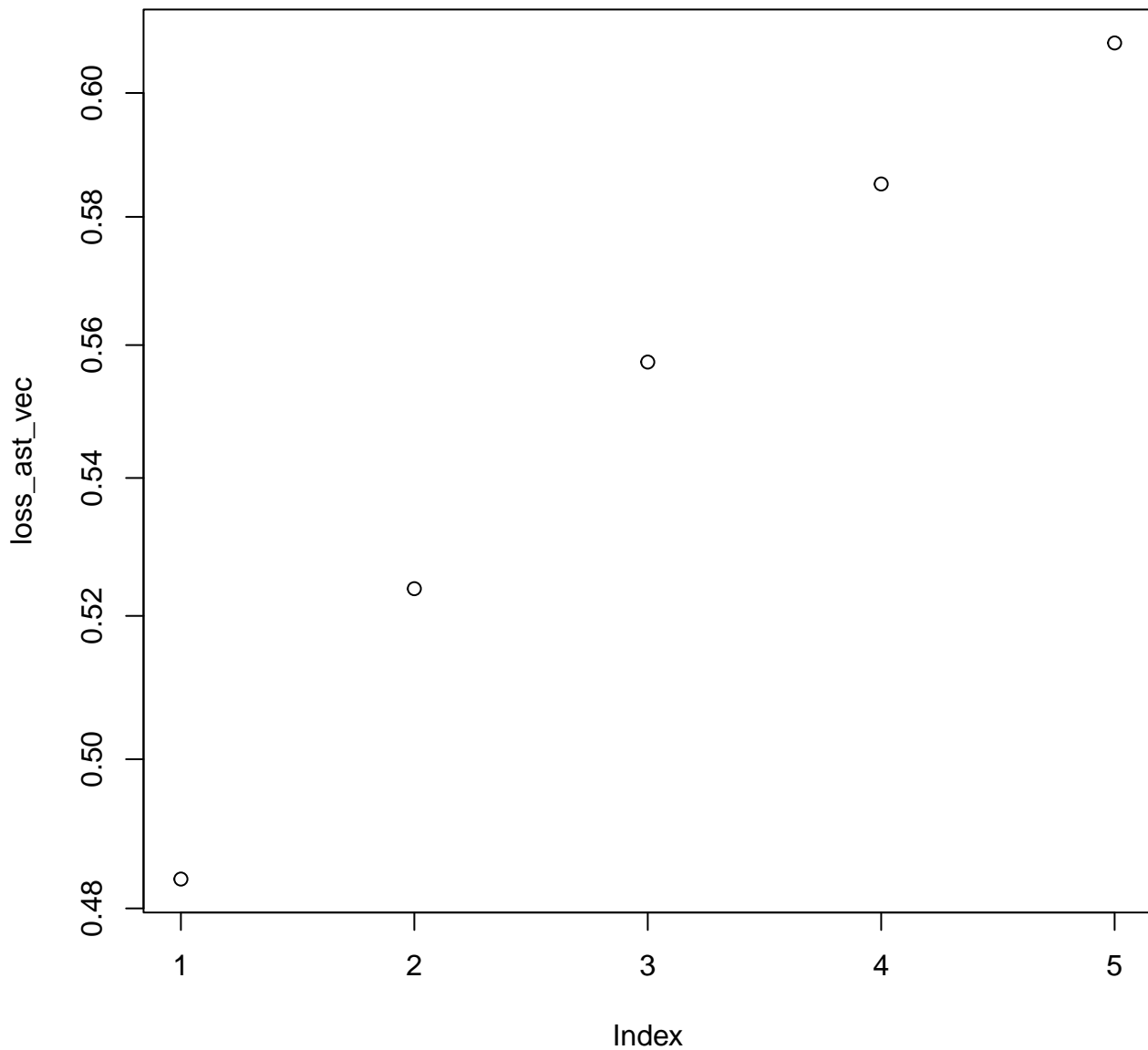
**Value (ast)**



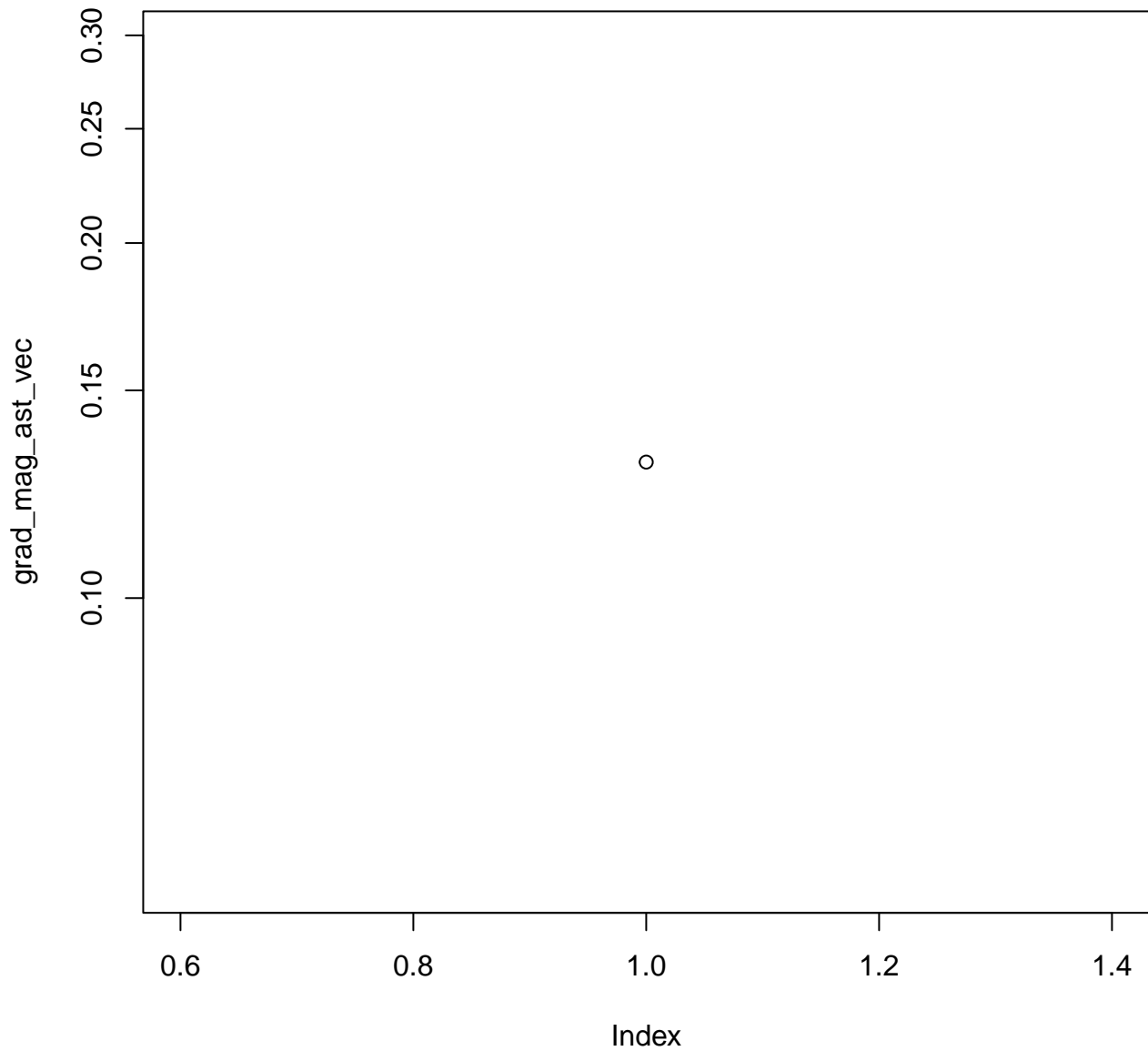
**Gradient Magnitude Evolution (ast)**



Value (ast)



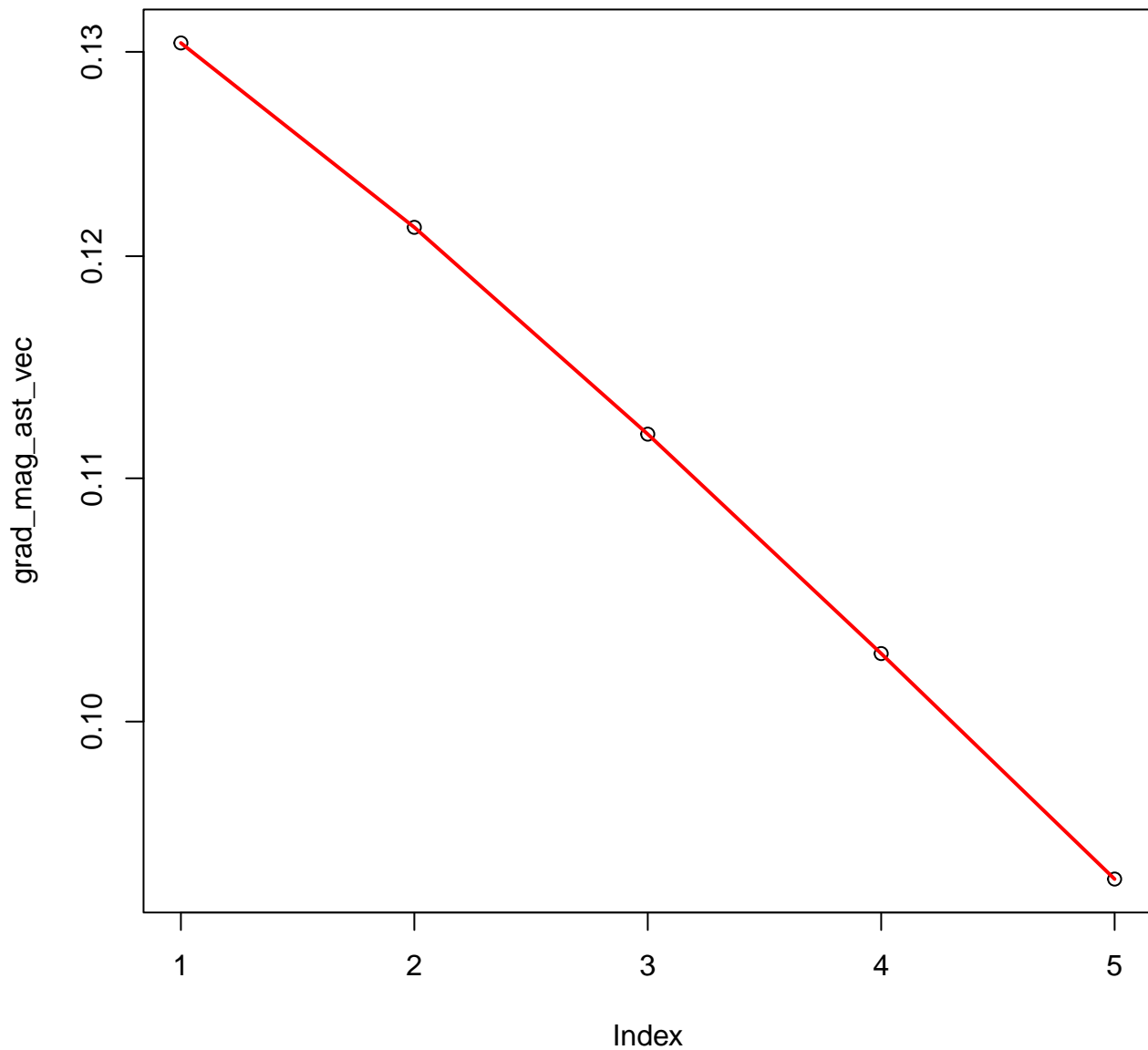
## Gradient Magnitude Evolution (ast)



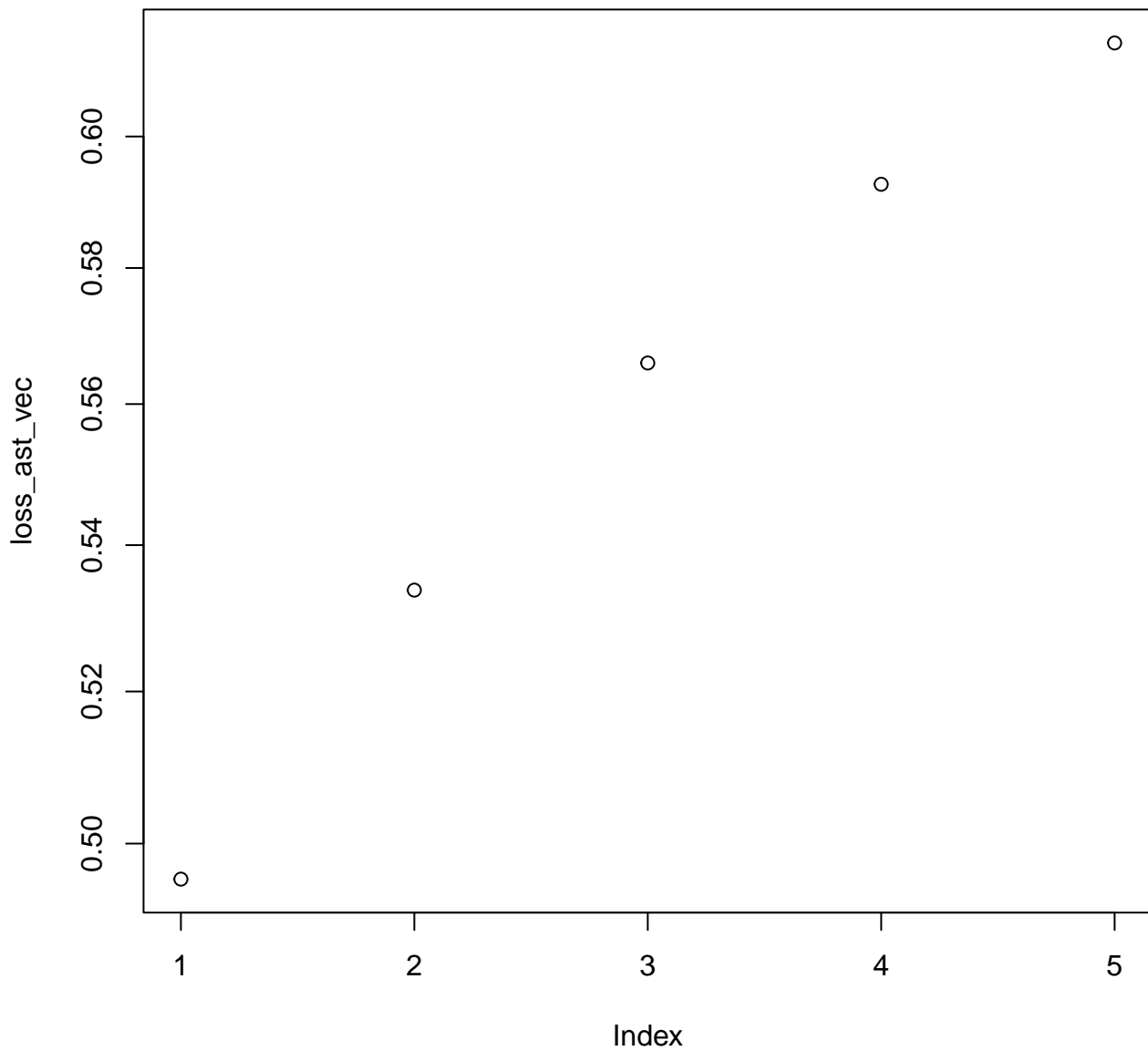
**Value (ast)**



**Gradient Magnitude Evolution (ast)**

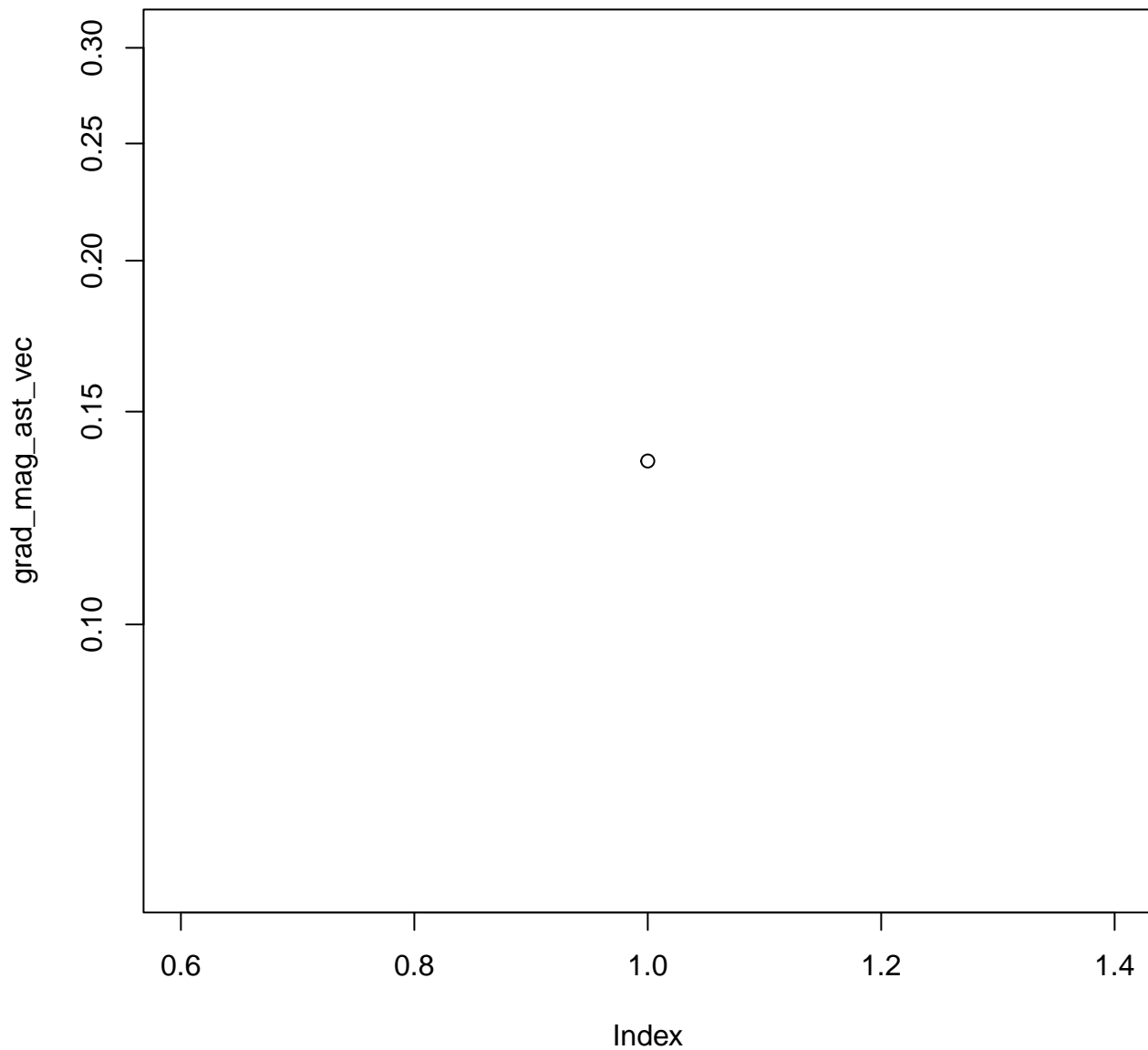


Value (ast)





**Gradient Magnitude Evolution (ast)**



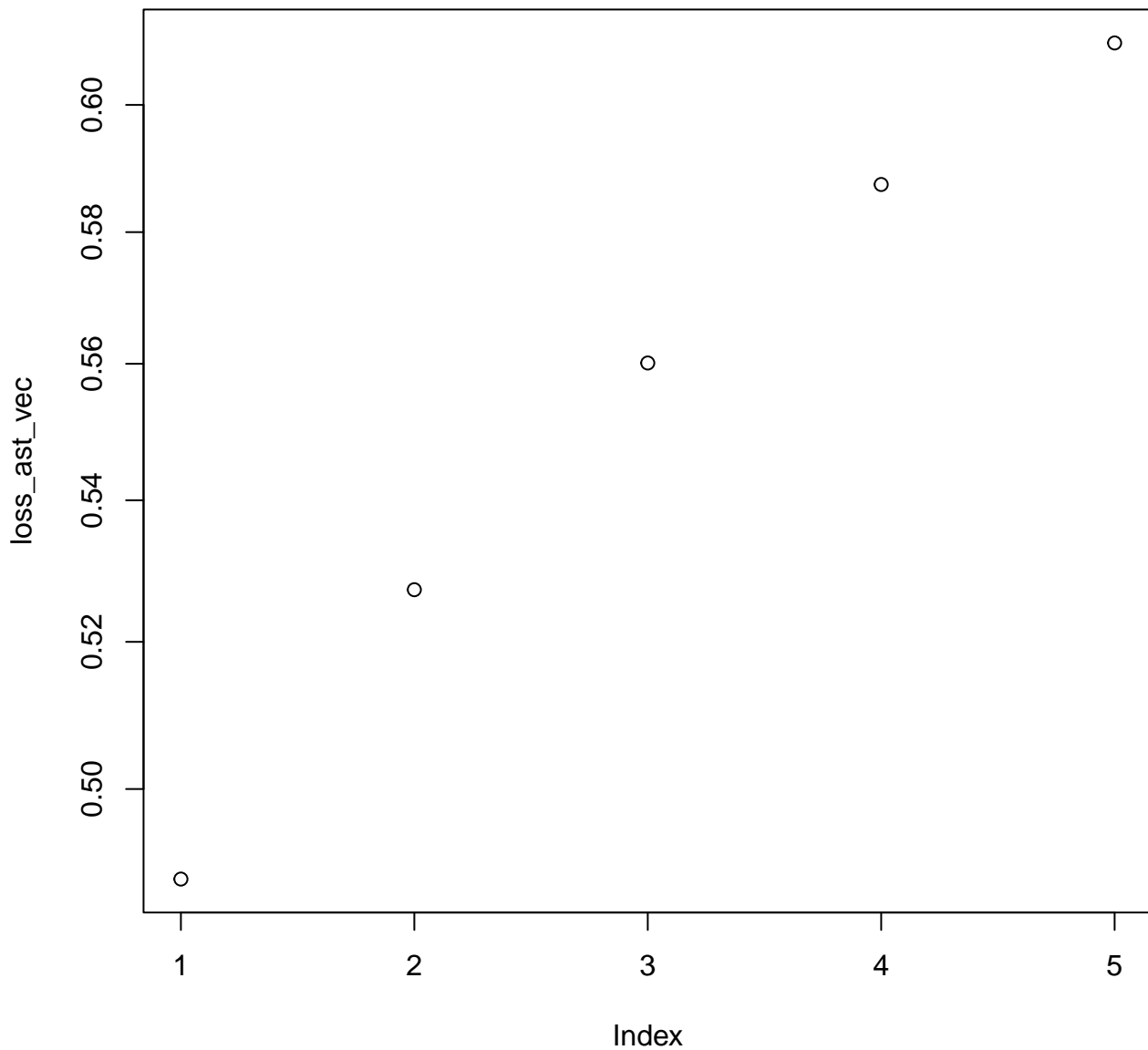
Value (ast)



**Gradient Magnitude Evolution (ast)**



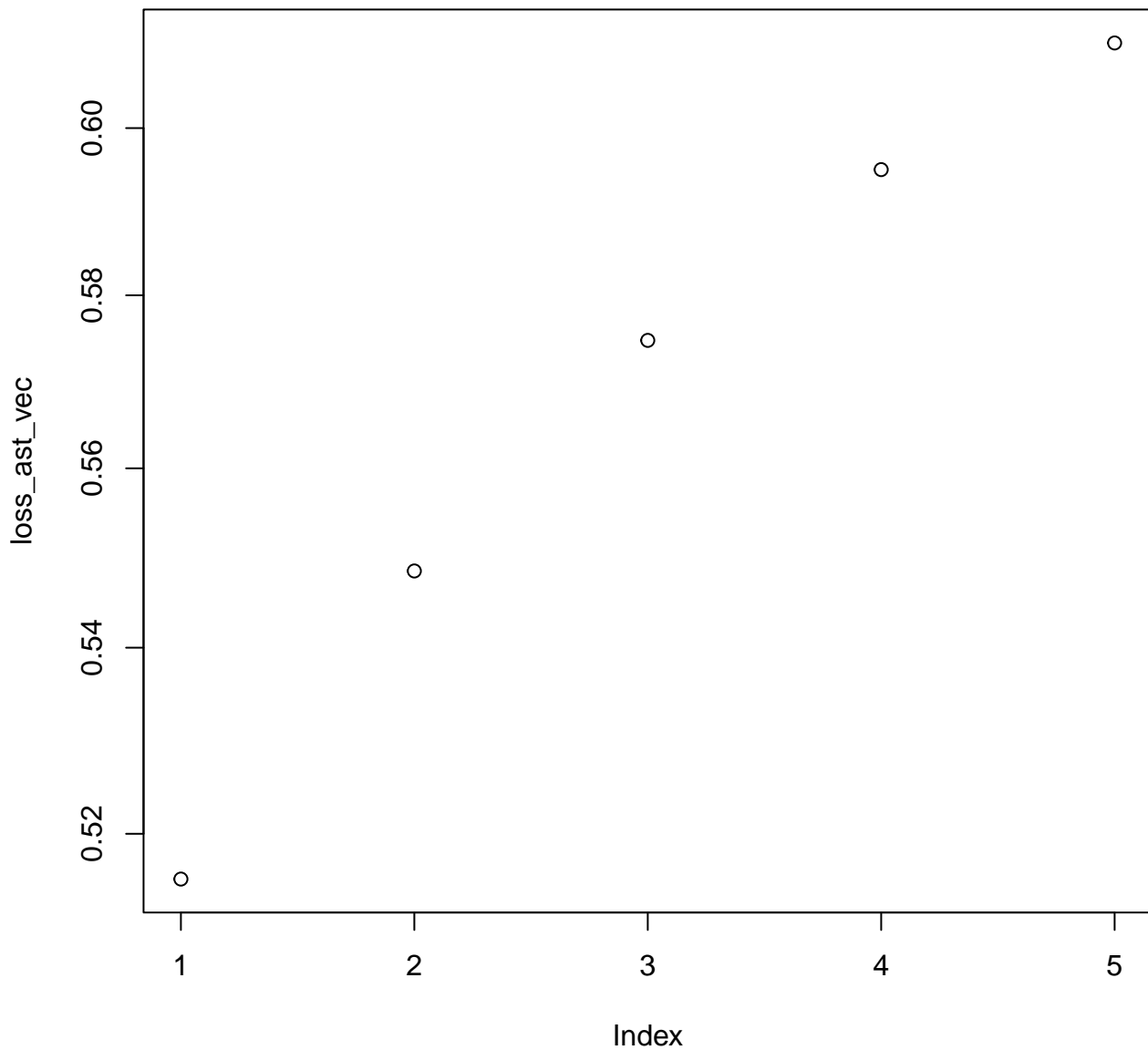
**Value (ast)**



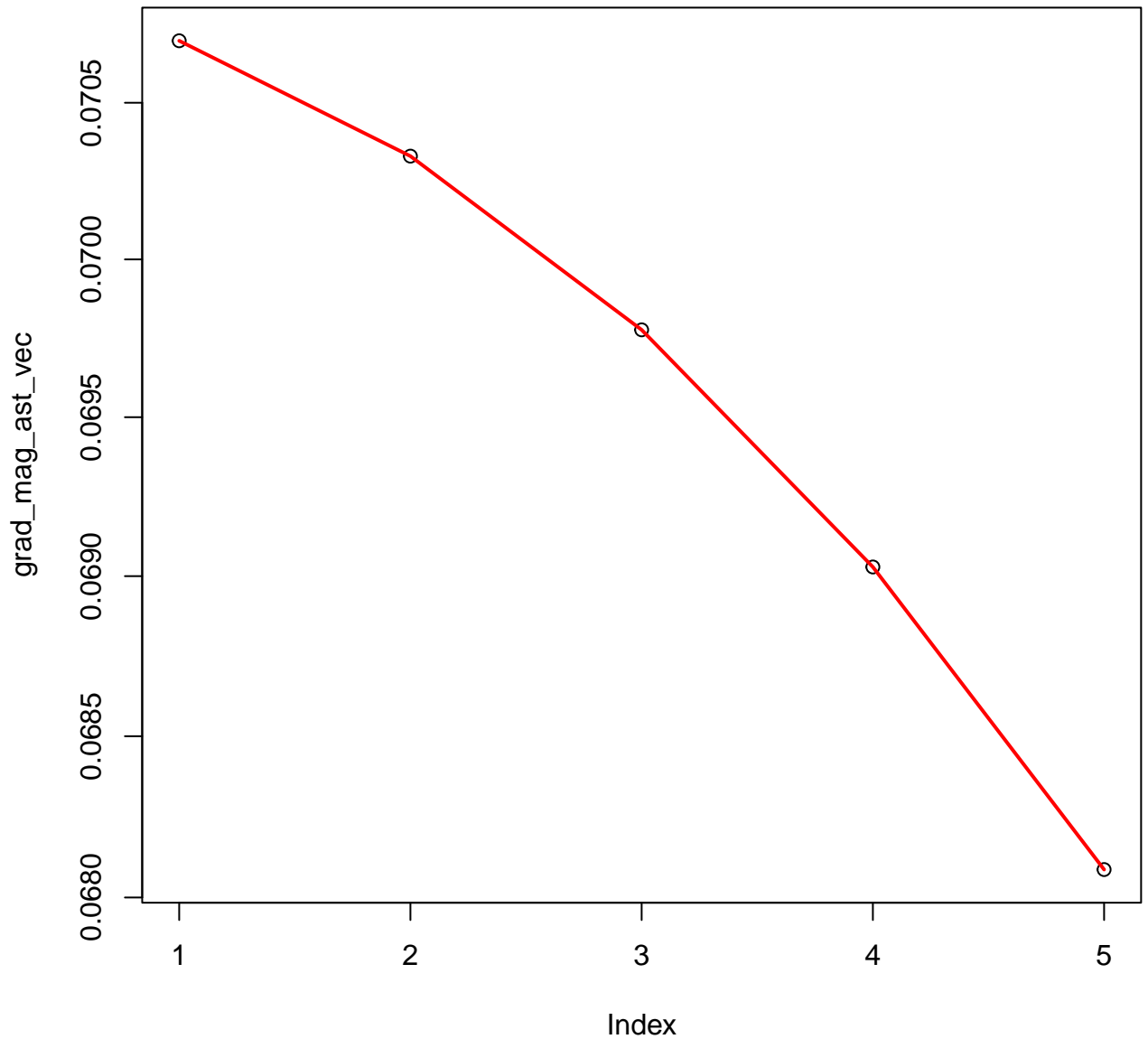
**Gradient Magnitude Evolution (ast)**



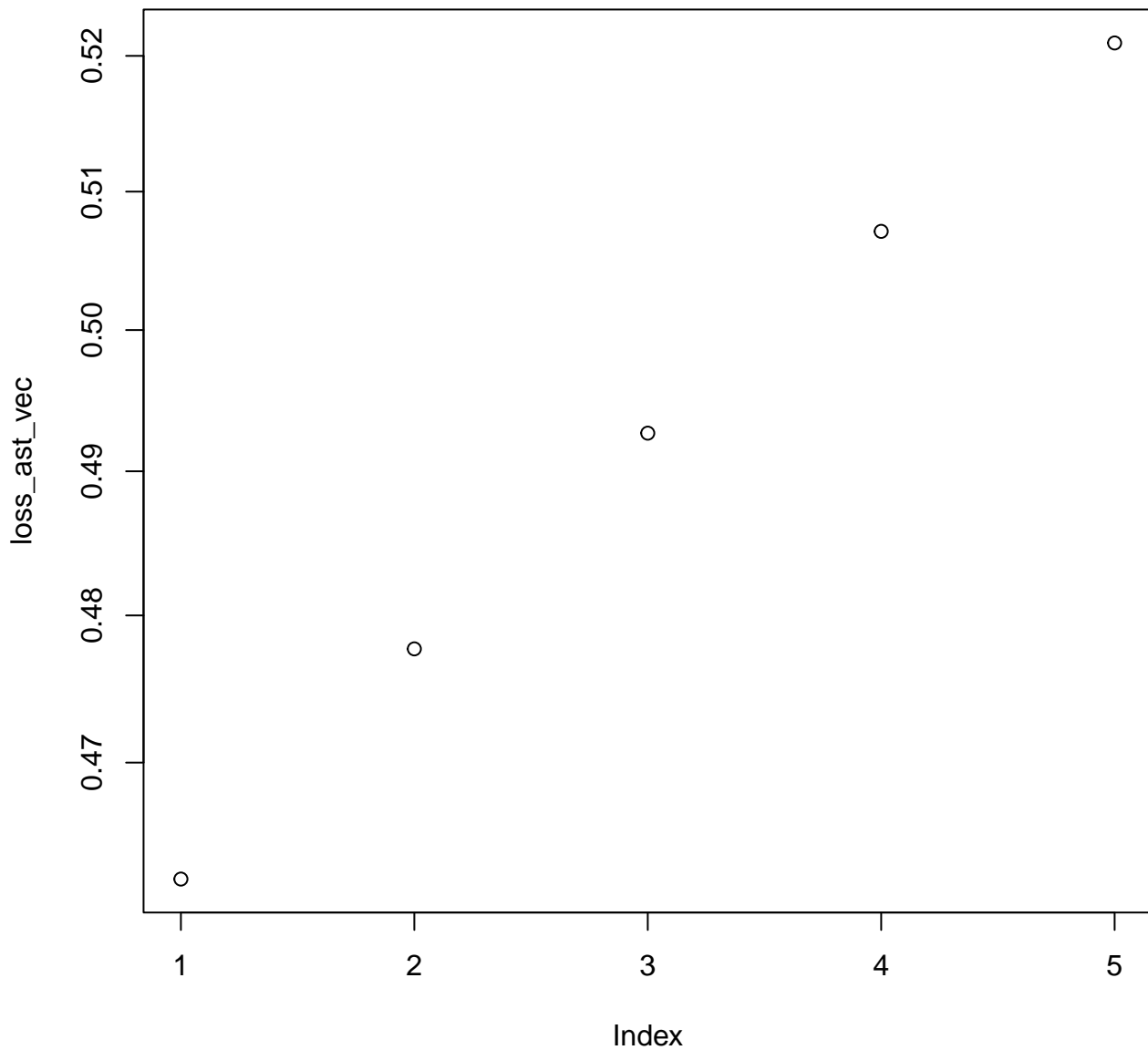
**Value (ast)**



**Gradient Magnitude Evolution (ast)**

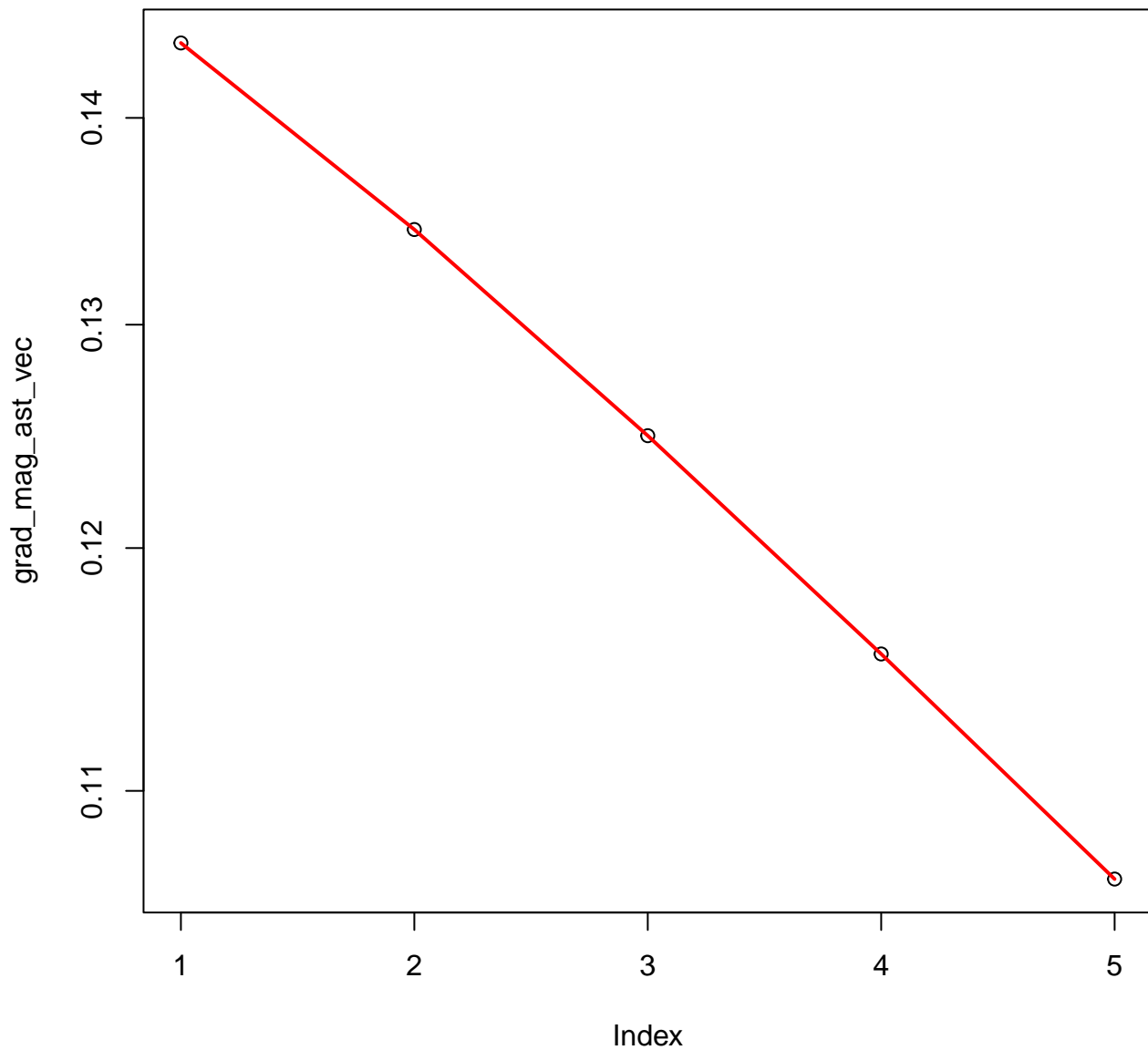


**Value (ast)**





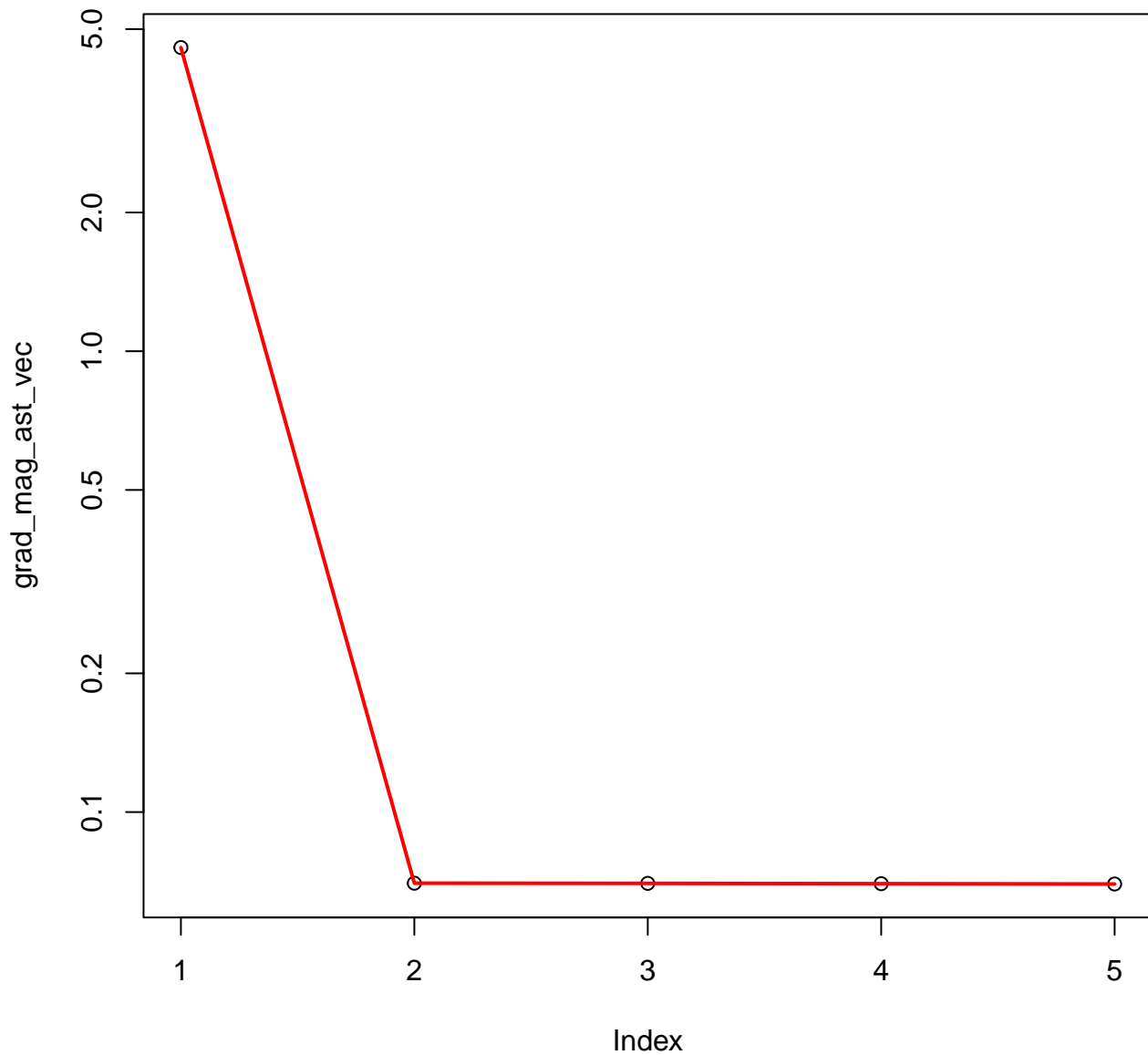
**Gradient Magnitude Evolution (ast)**



**Value (ast)**



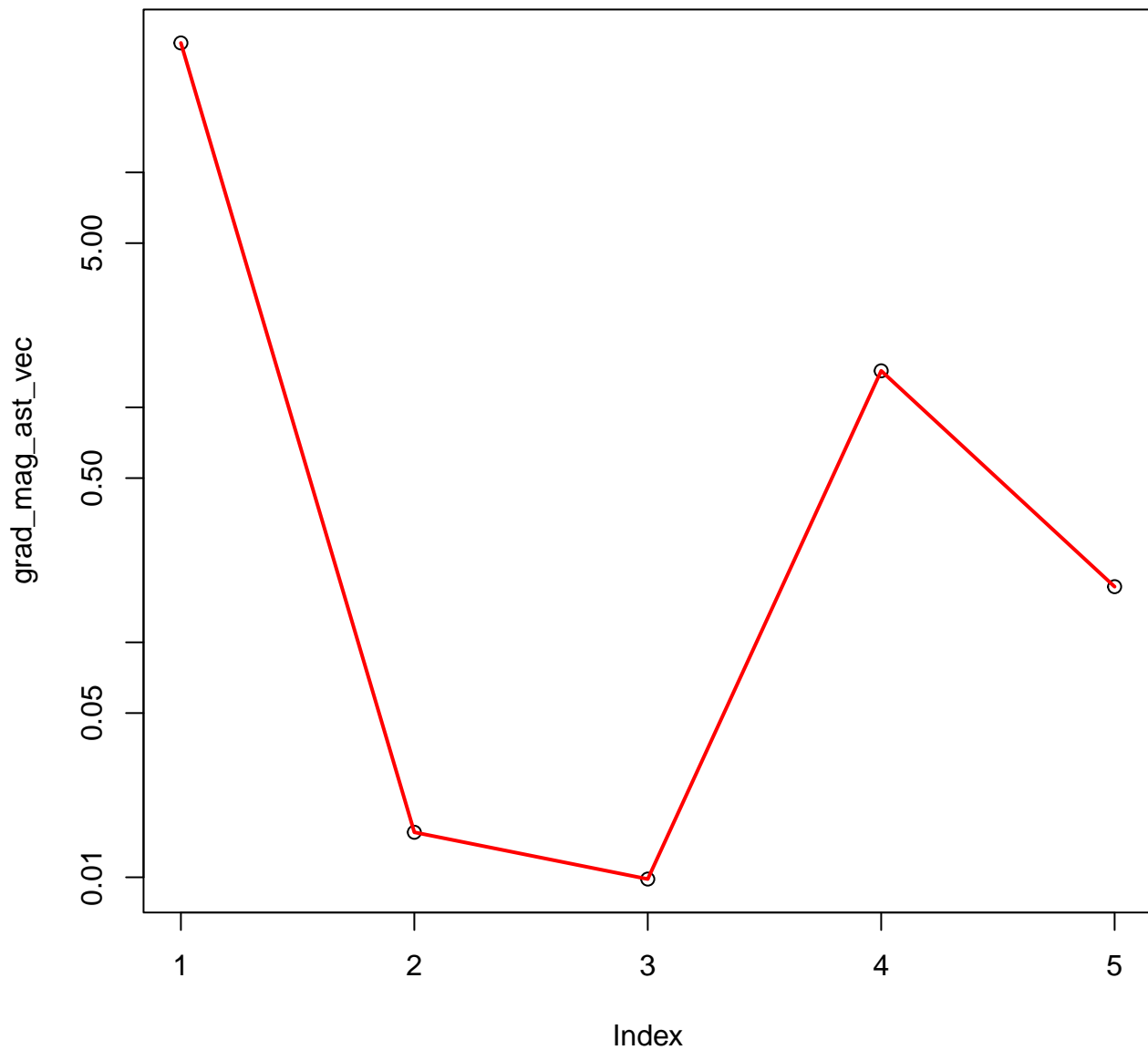
**Gradient Magnitude Evolution (ast)**



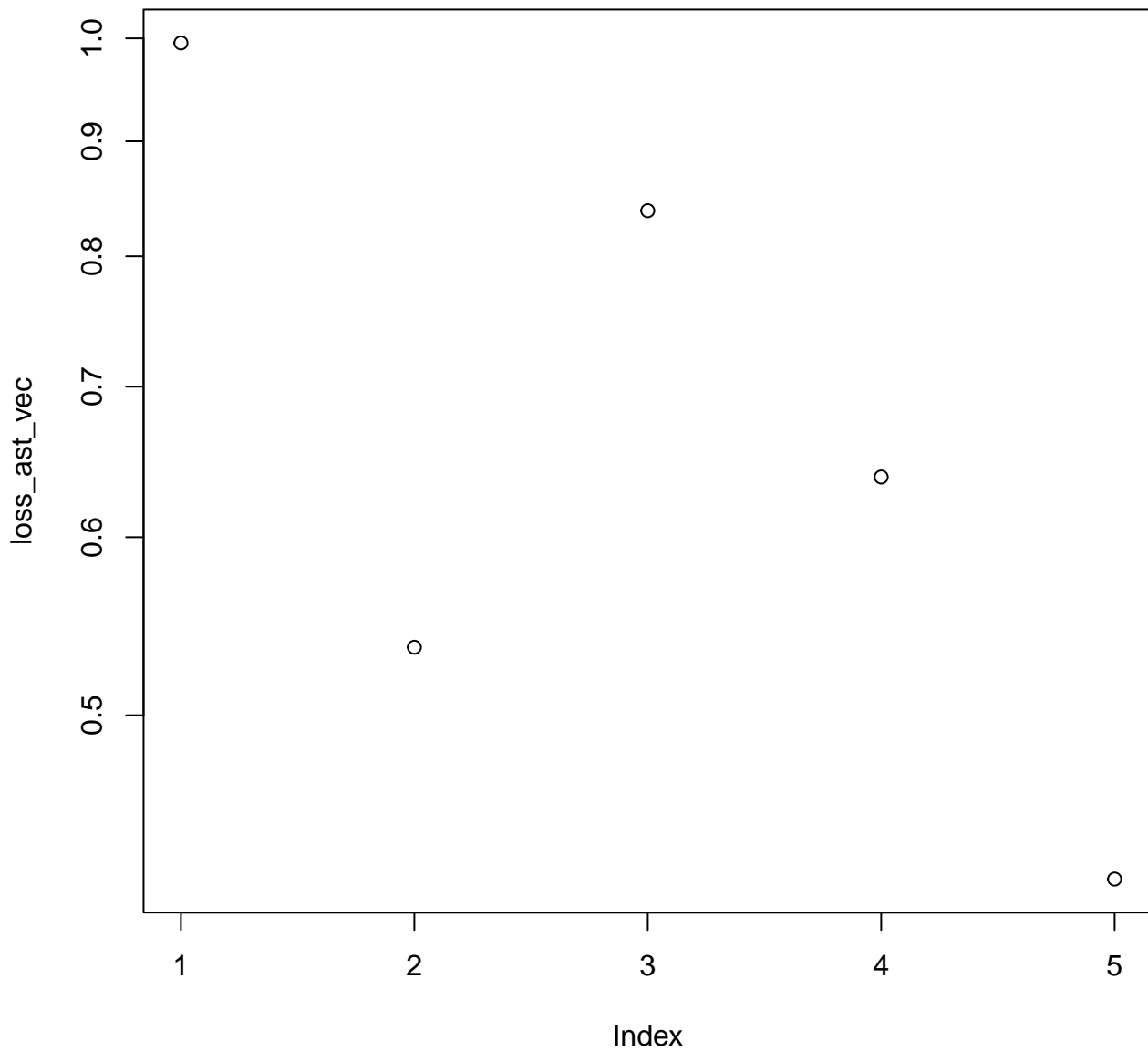
Value (ast)



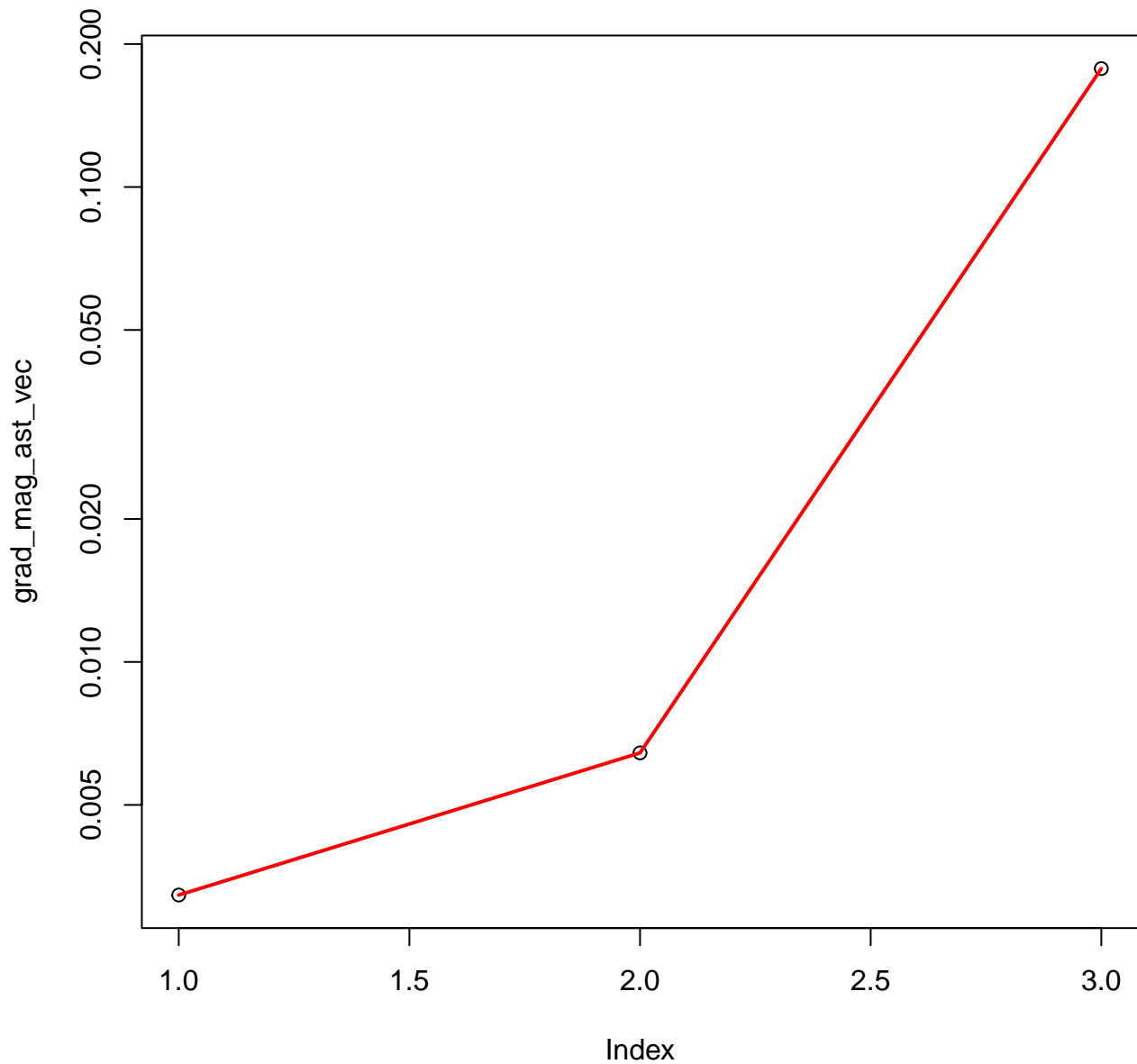
**Gradient Magnitude Evolution (ast)**



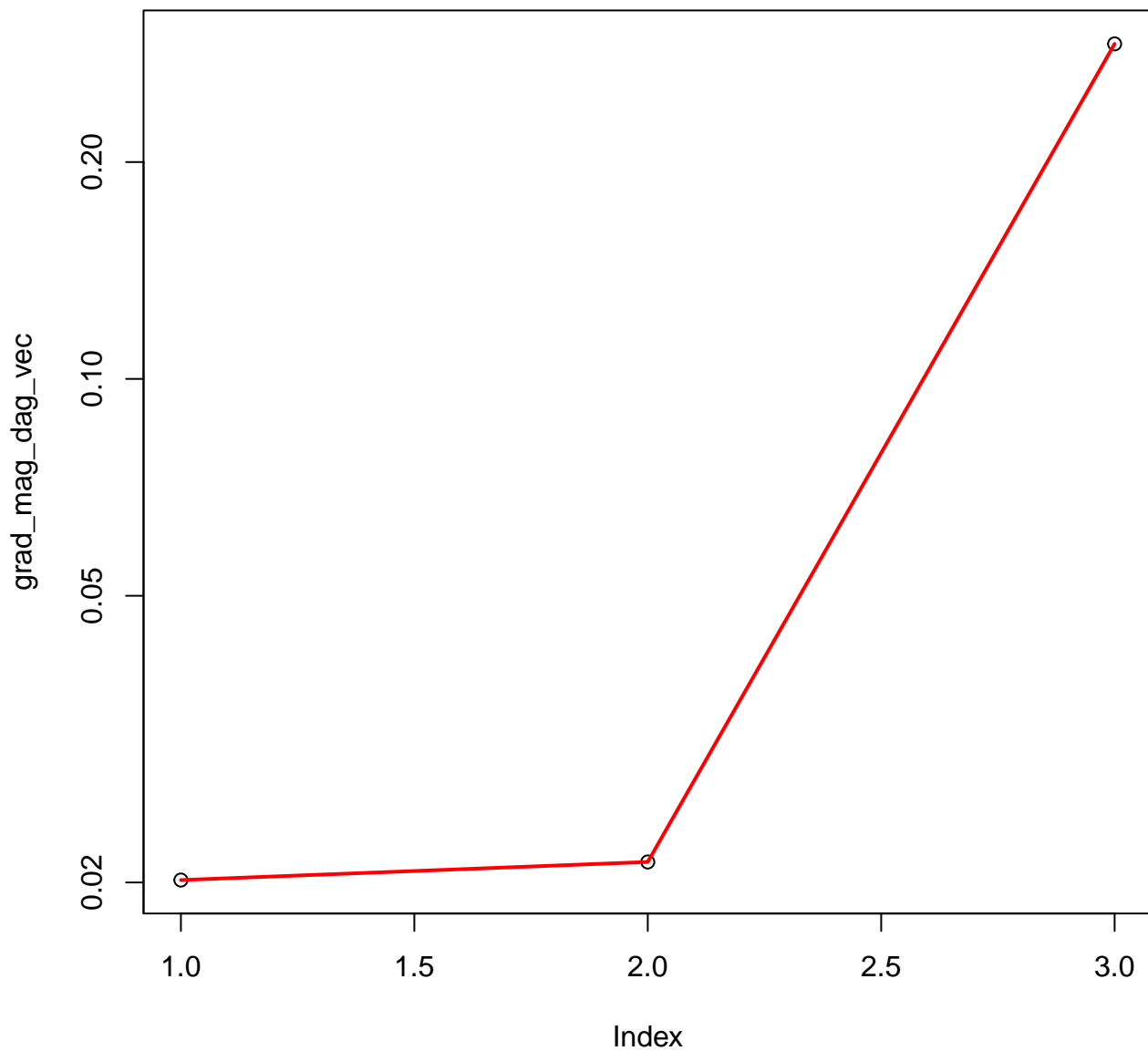
**Value (ast)**



**Gradient Magnitude Evolution (ast)**



**Gradient Magnitude Evolution (dag)**





**Value (ast)**



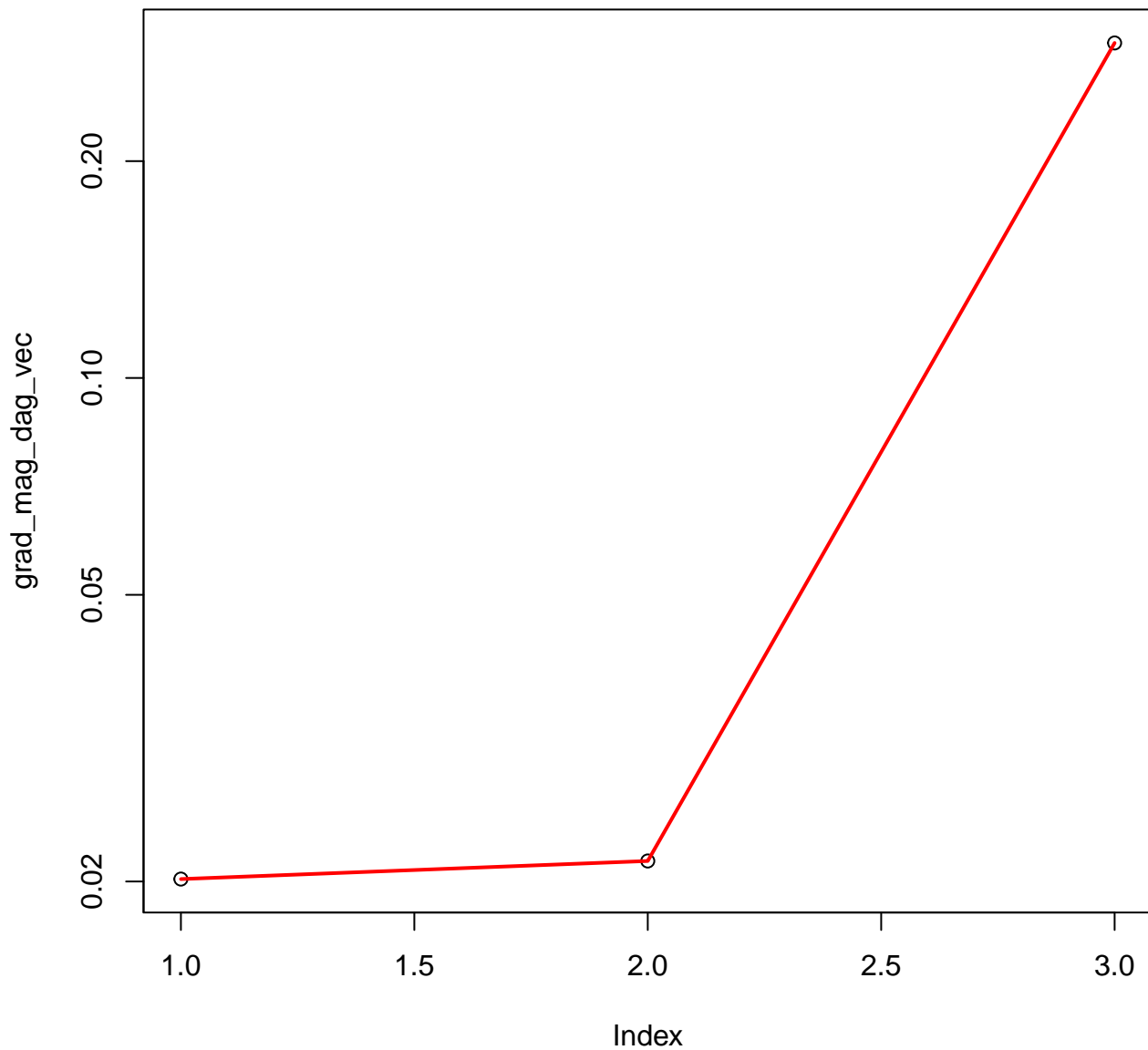
**Value (dag)**



**Gradient Magnitude Evolution (ast)**



**Gradient Magnitude Evolution (dag)**



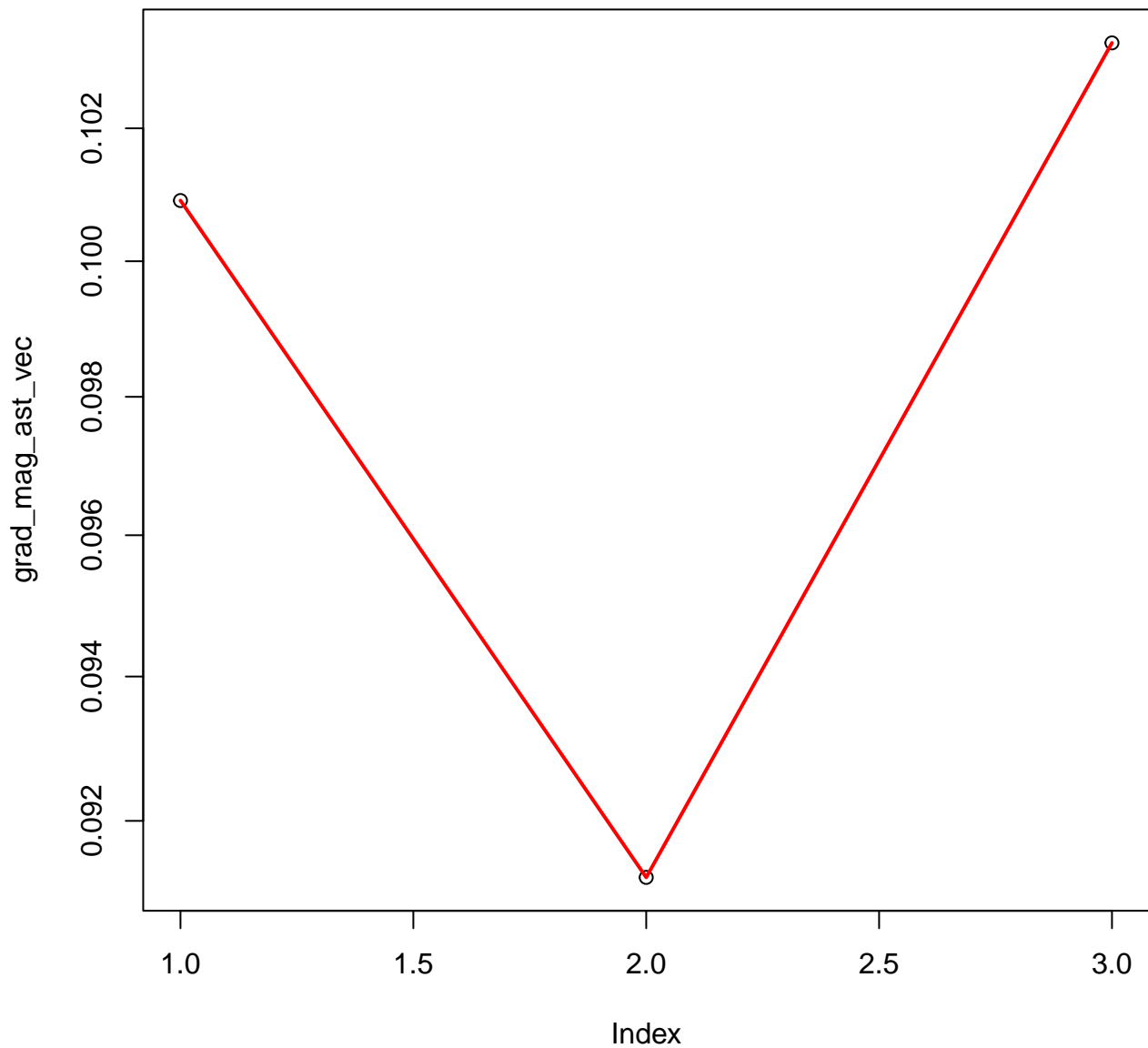
**Value (ast)**



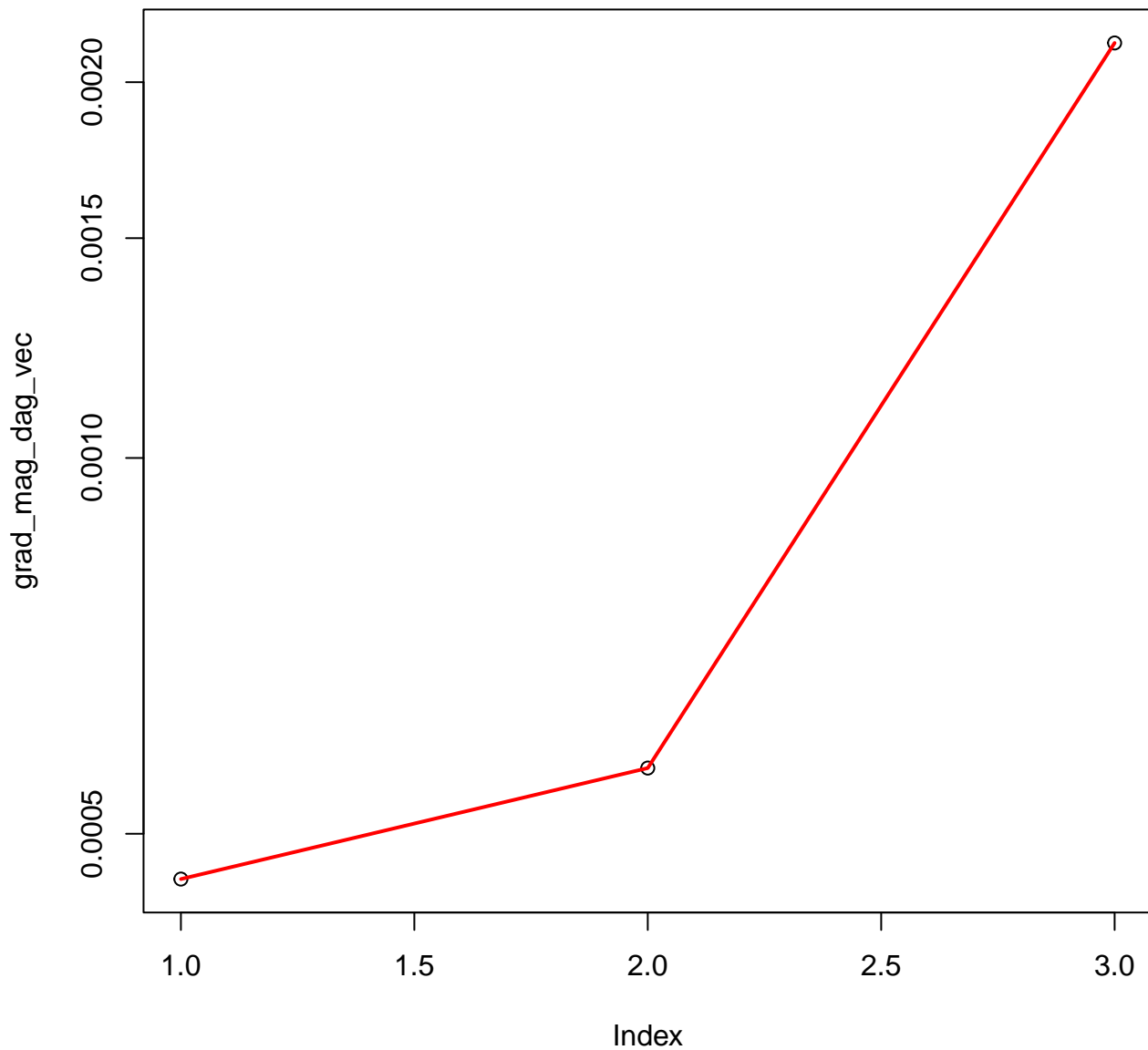
**Value (dag)**



**Gradient Magnitude Evolution (ast)**

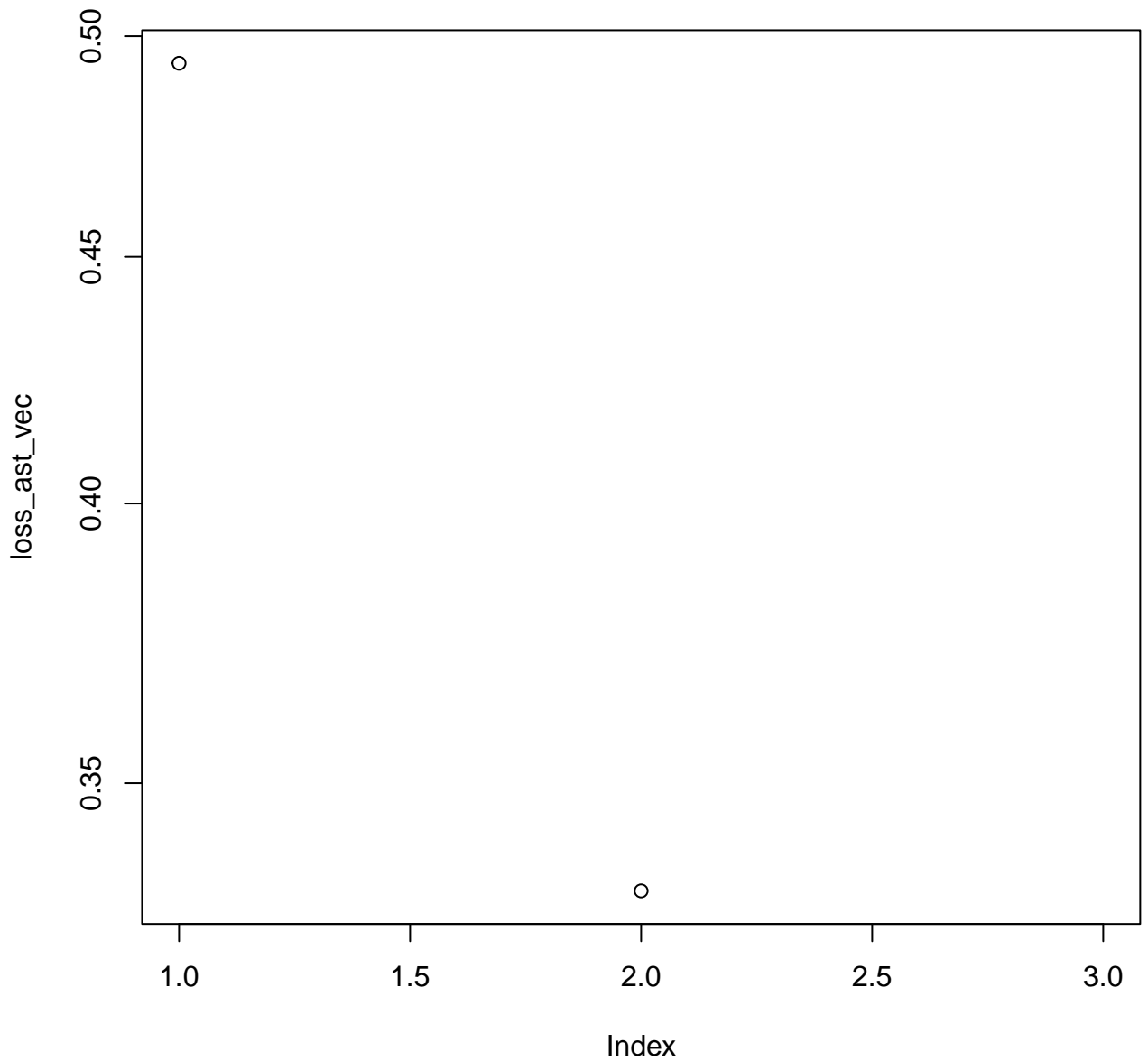


**Gradient Magnitude Evolution (dag)**

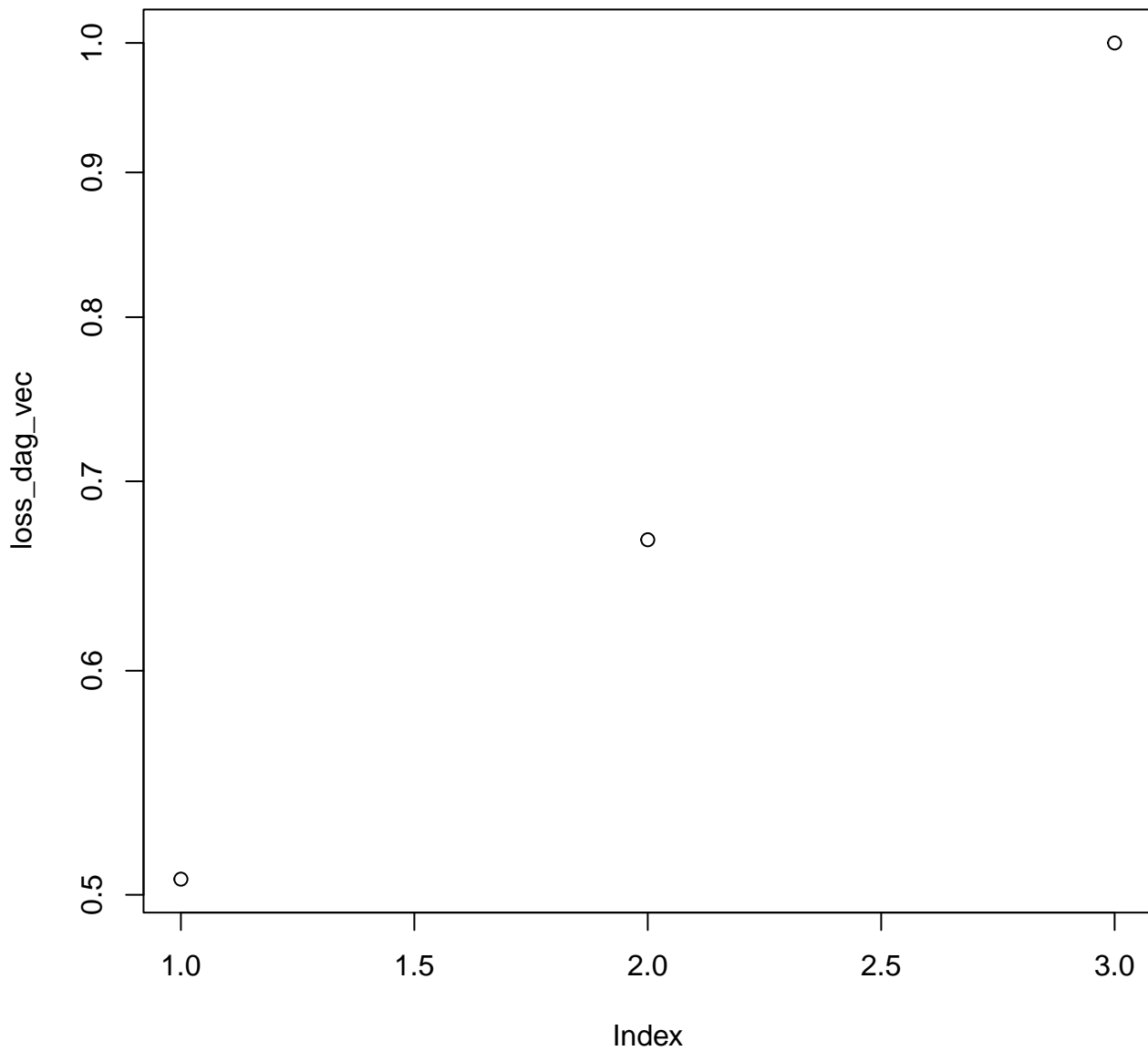




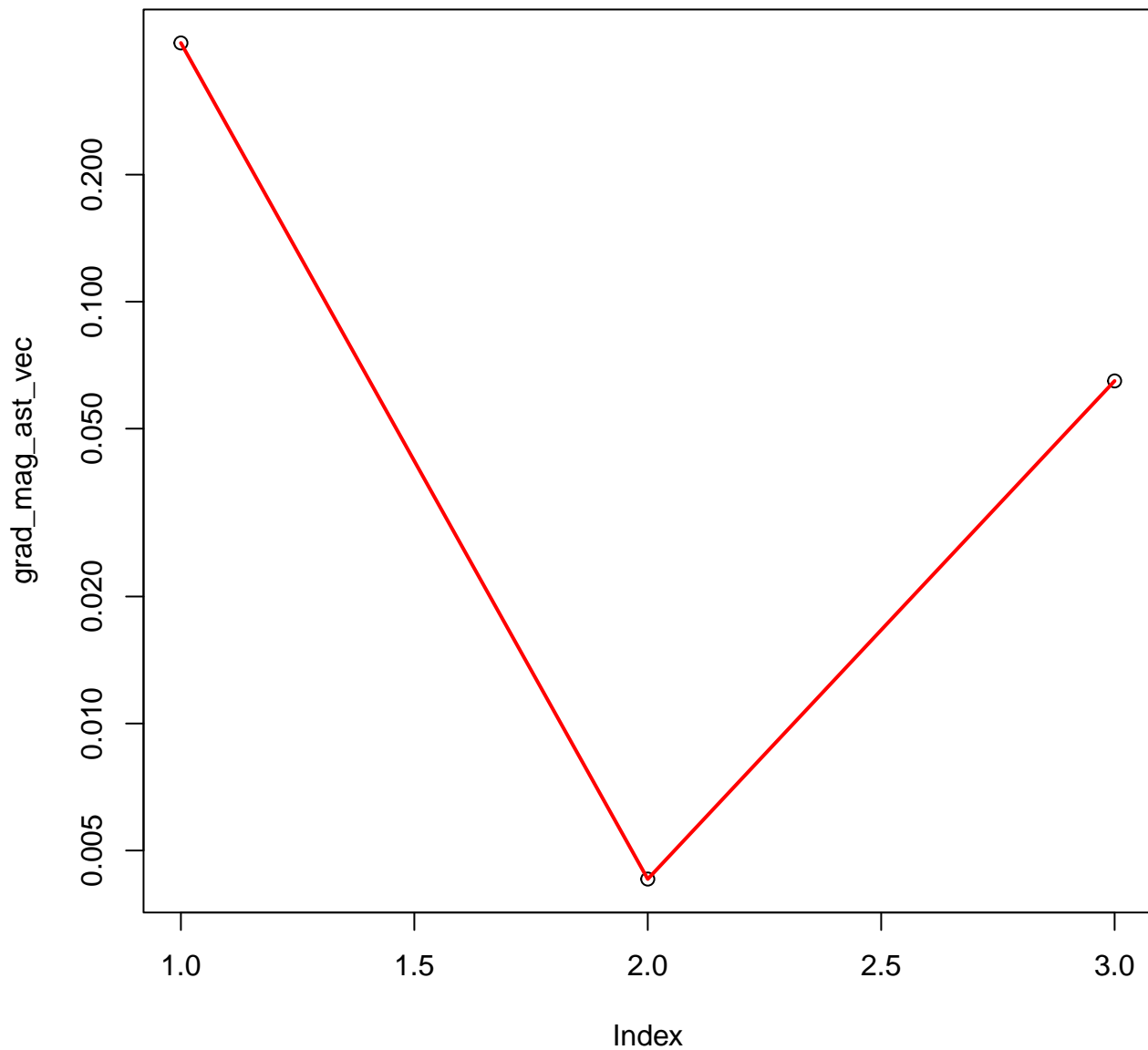
**Value (ast)**



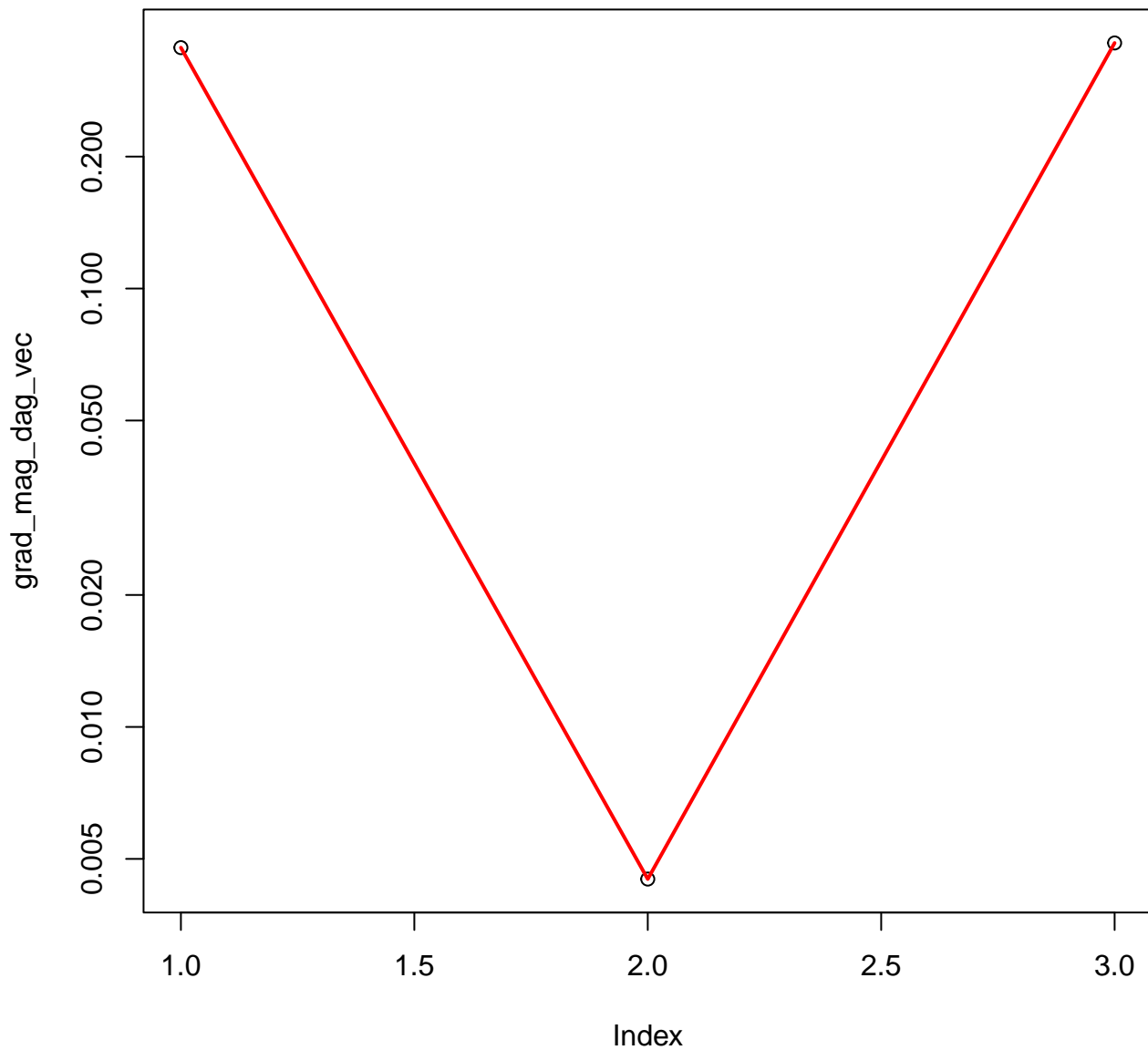
Value (dag)



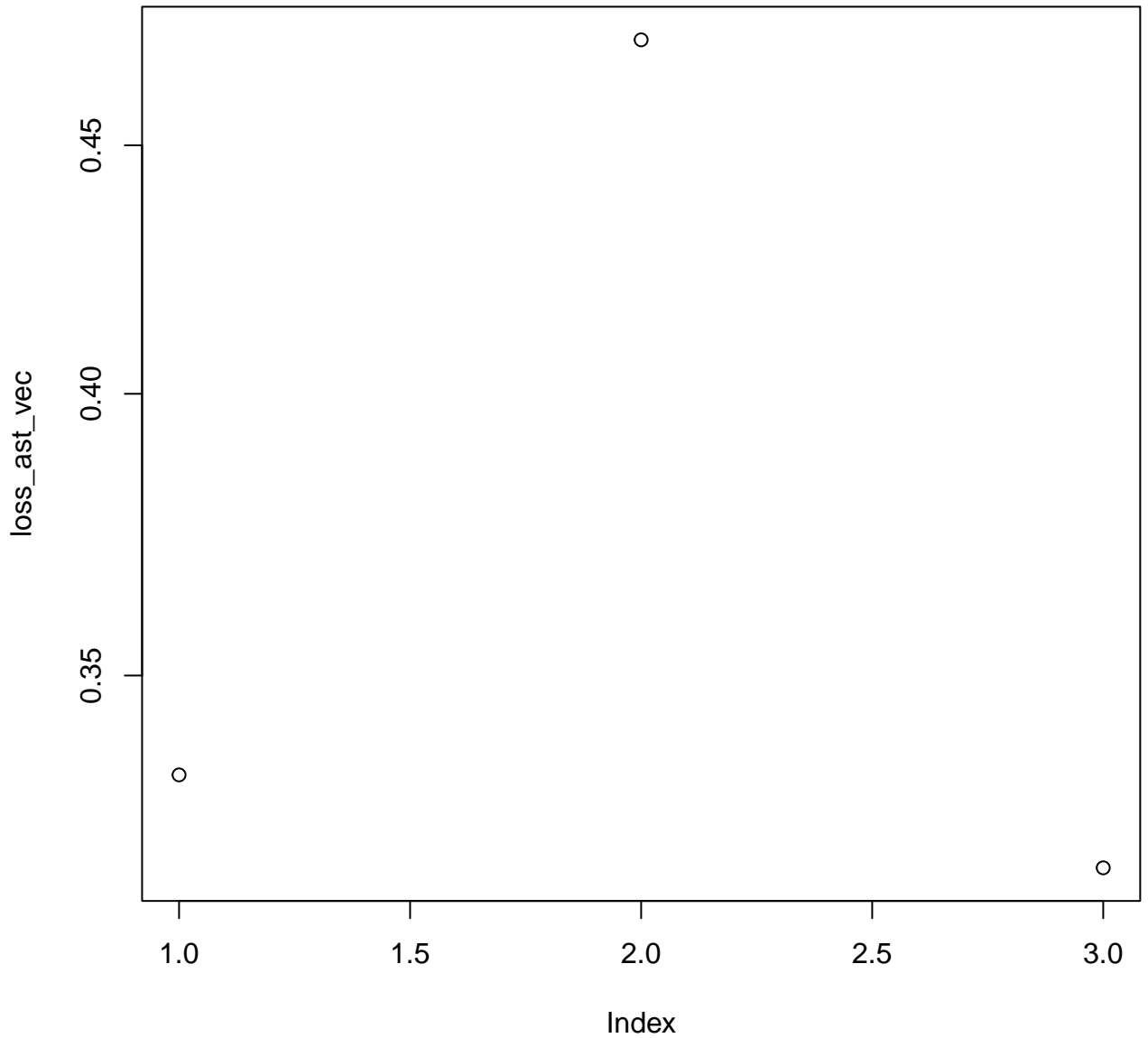
**Gradient Magnitude Evolution (ast)**



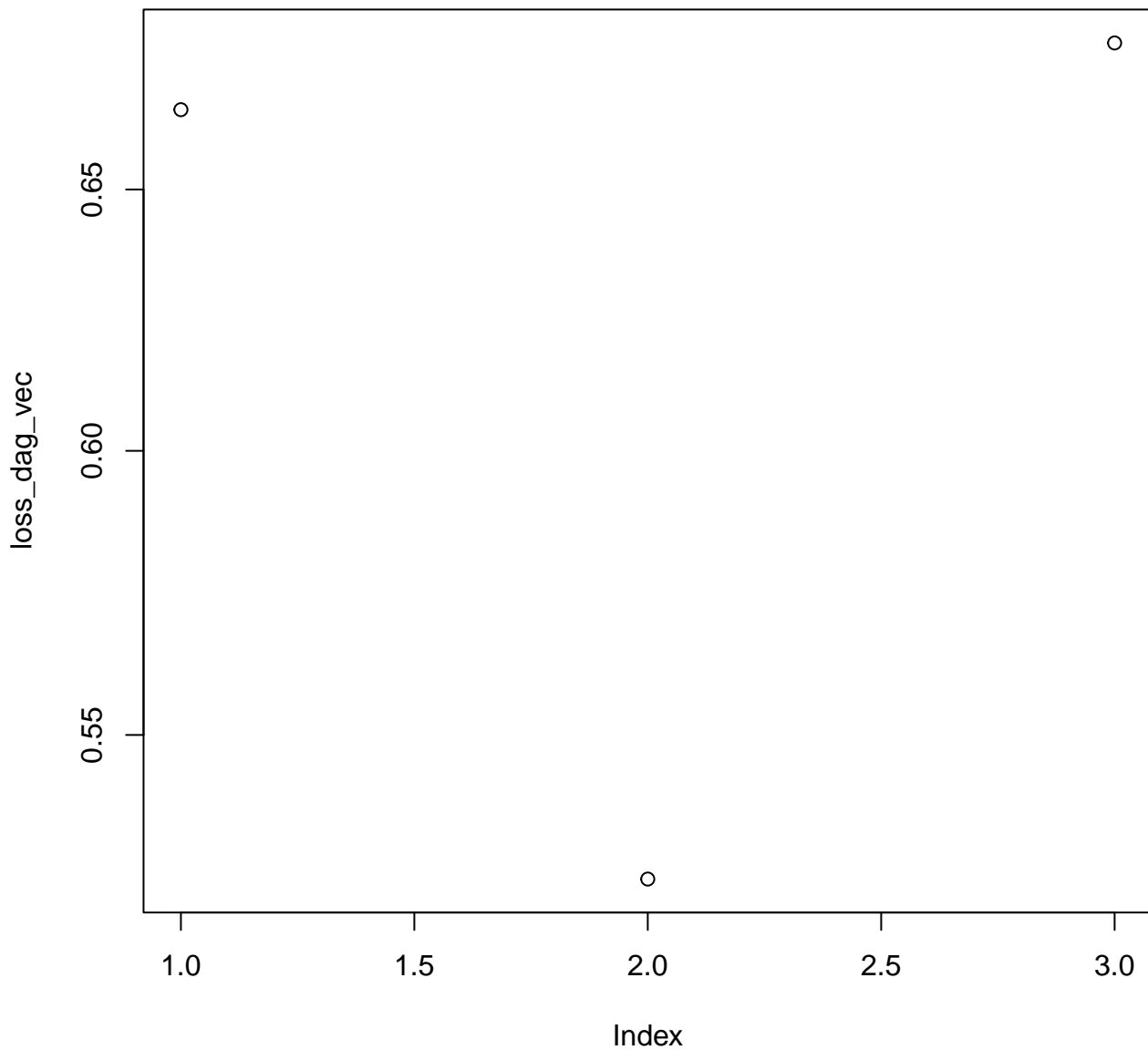
**Gradient Magnitude Evolution (dag)**



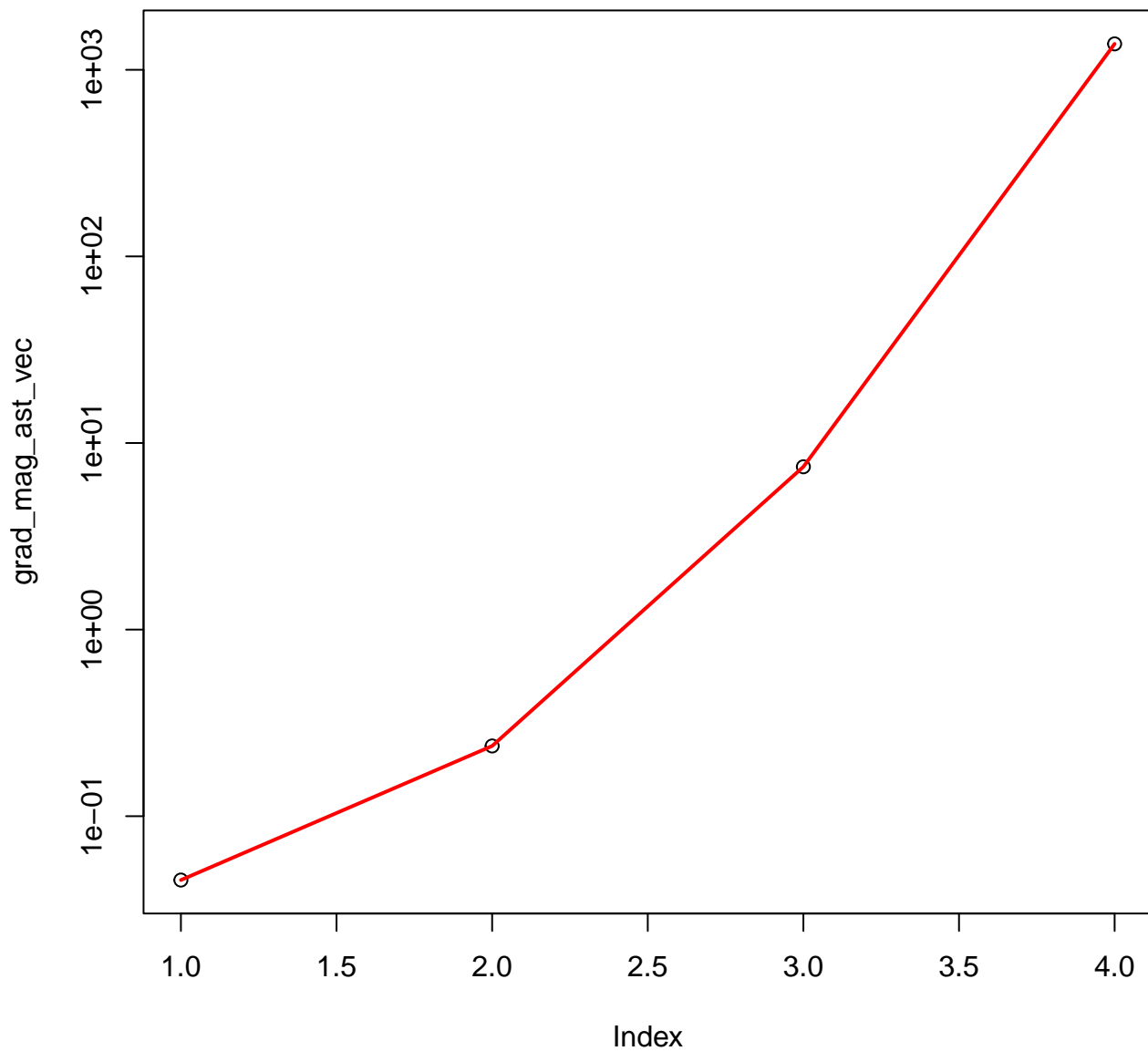
**Value (ast)**



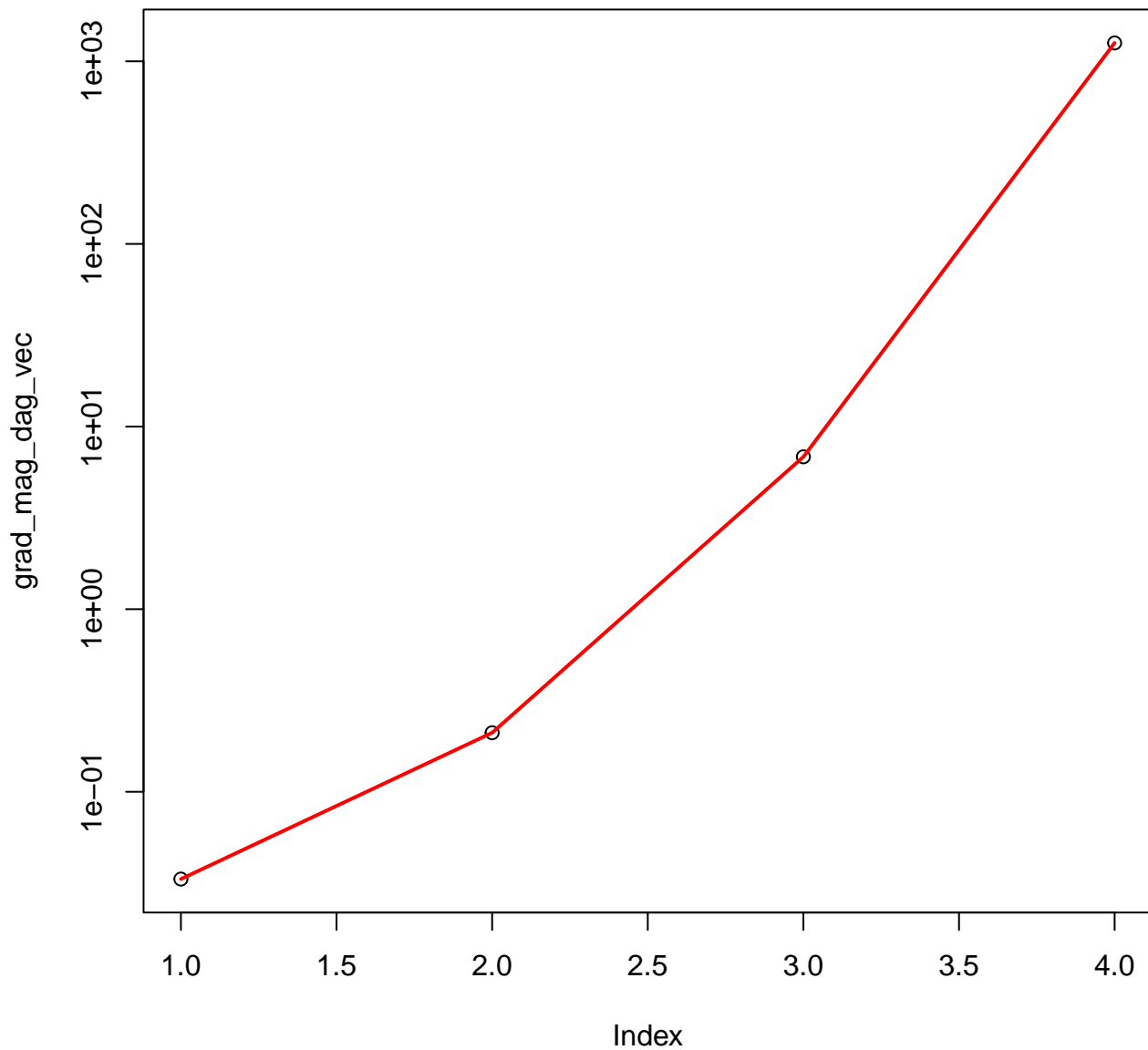
Value (dag)



**Gradient Magnitude Evolution (ast)**

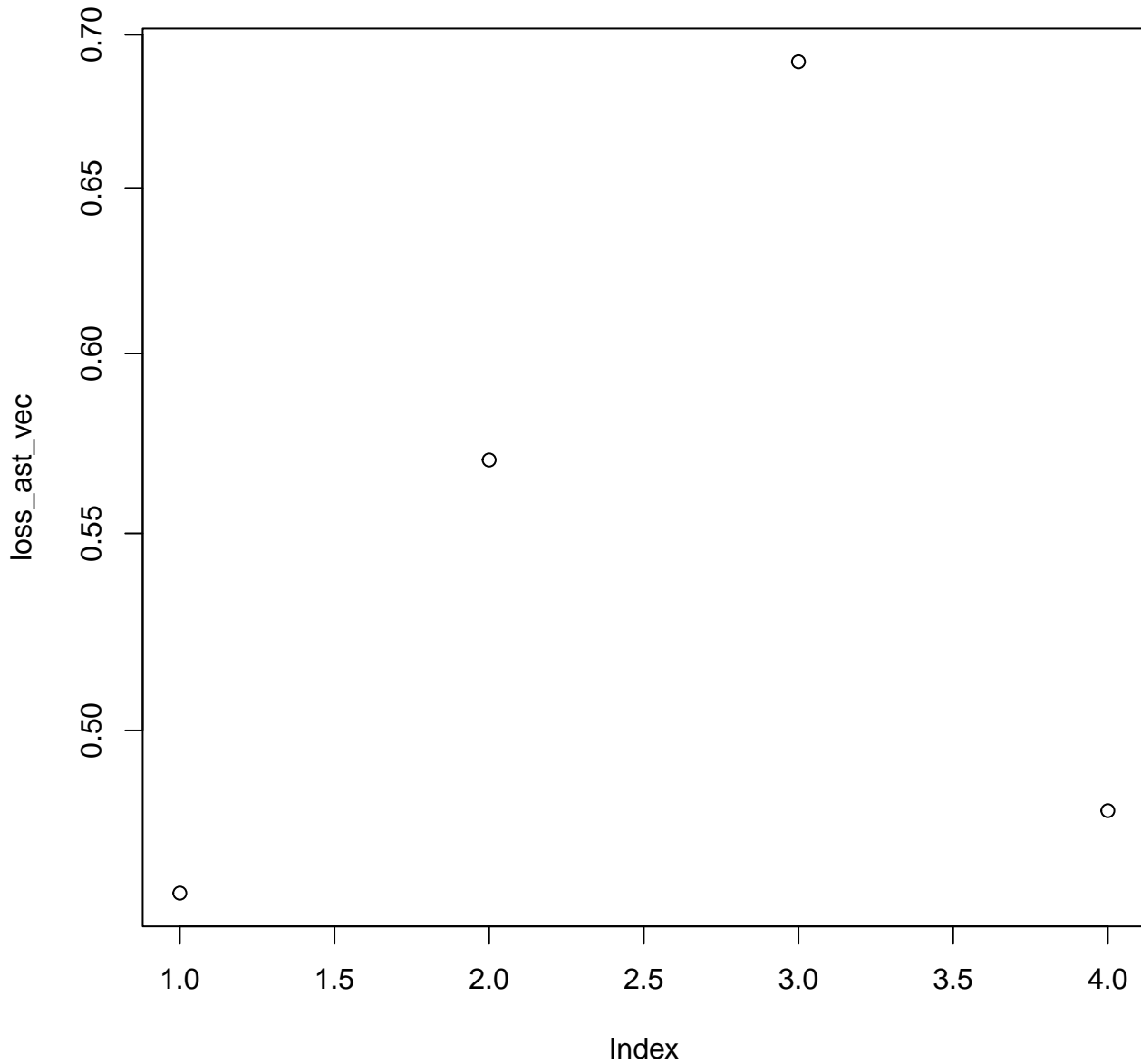


**Gradient Magnitude Evolution (dag)**

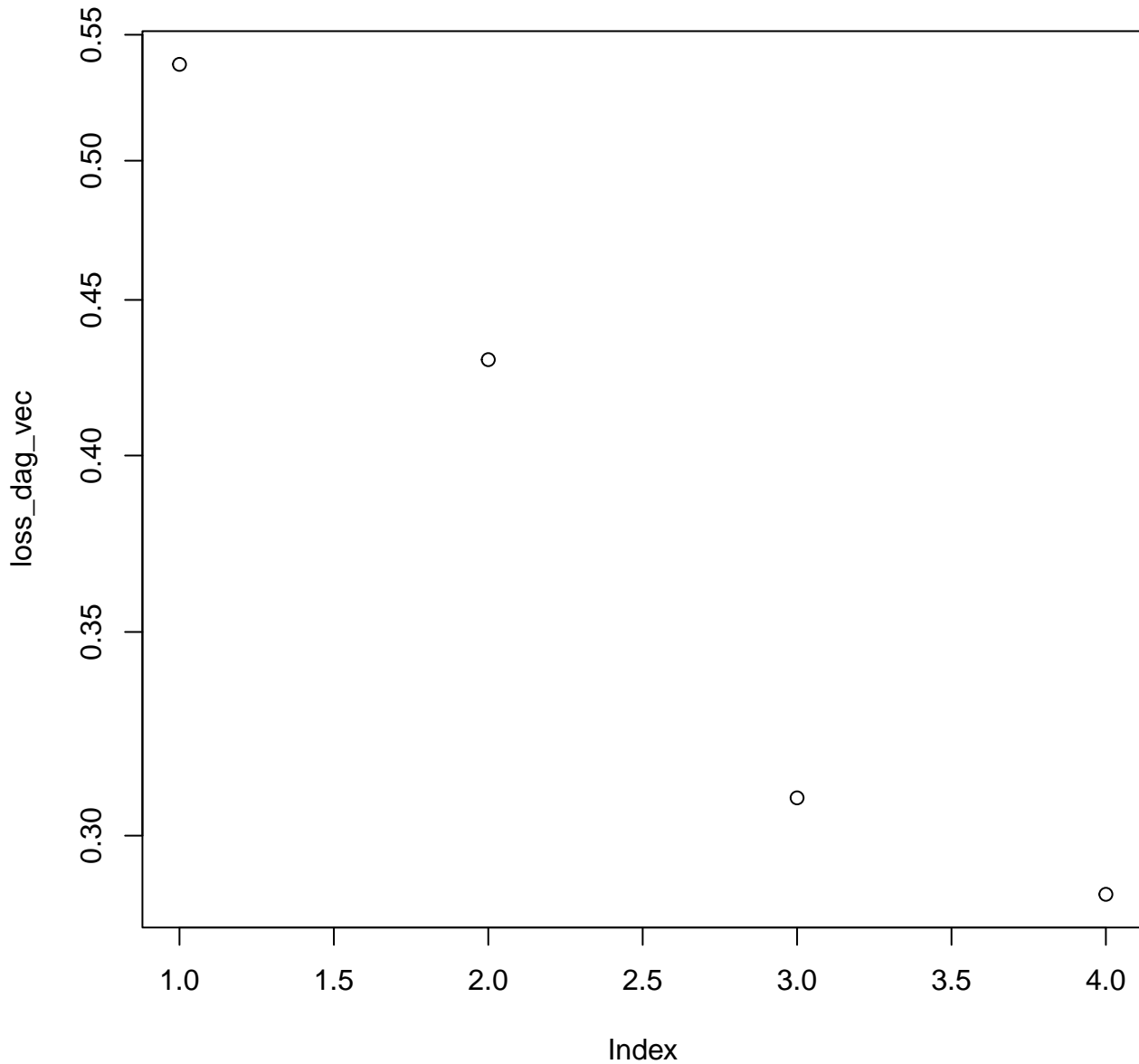




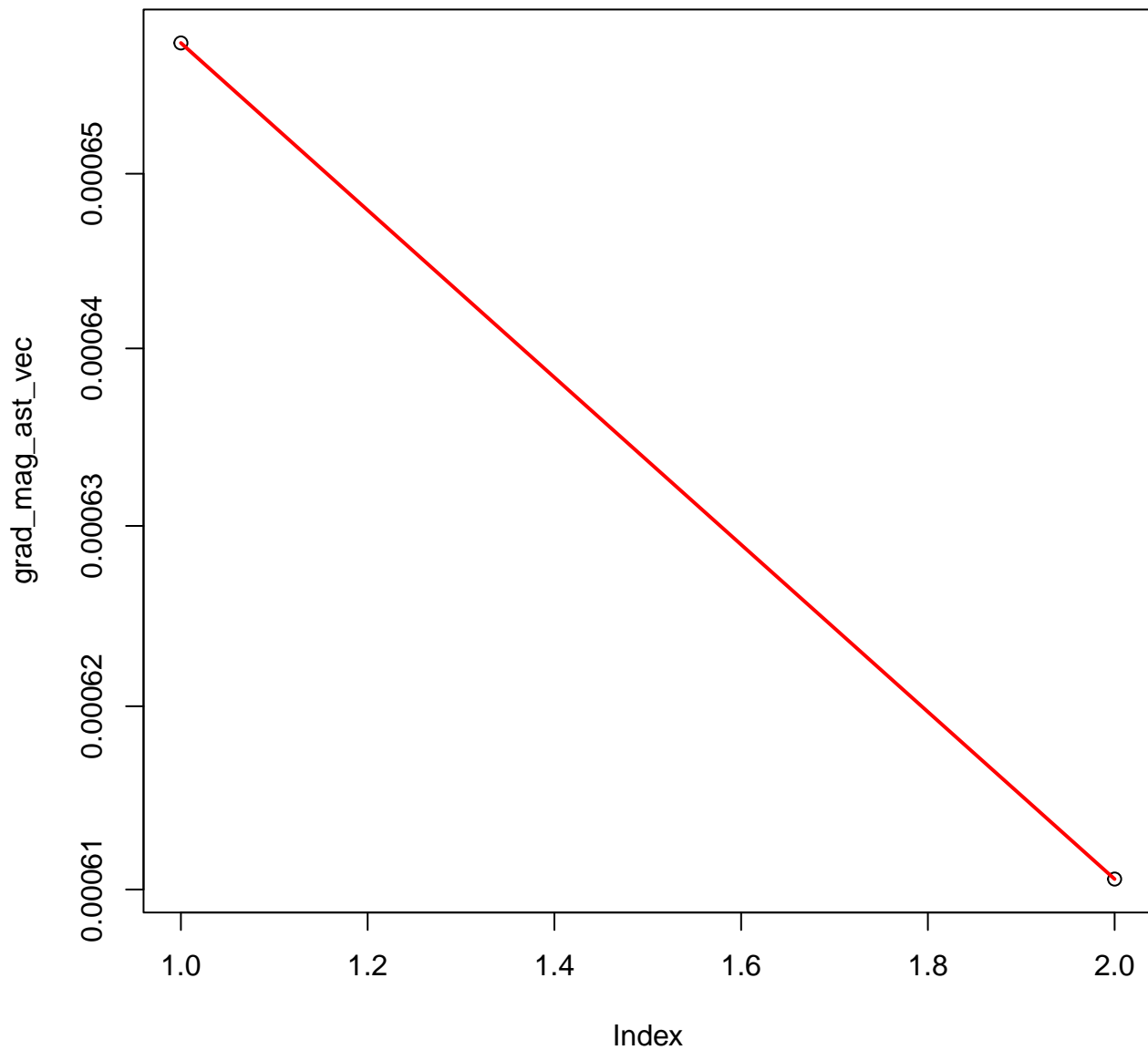
**Value (ast)**



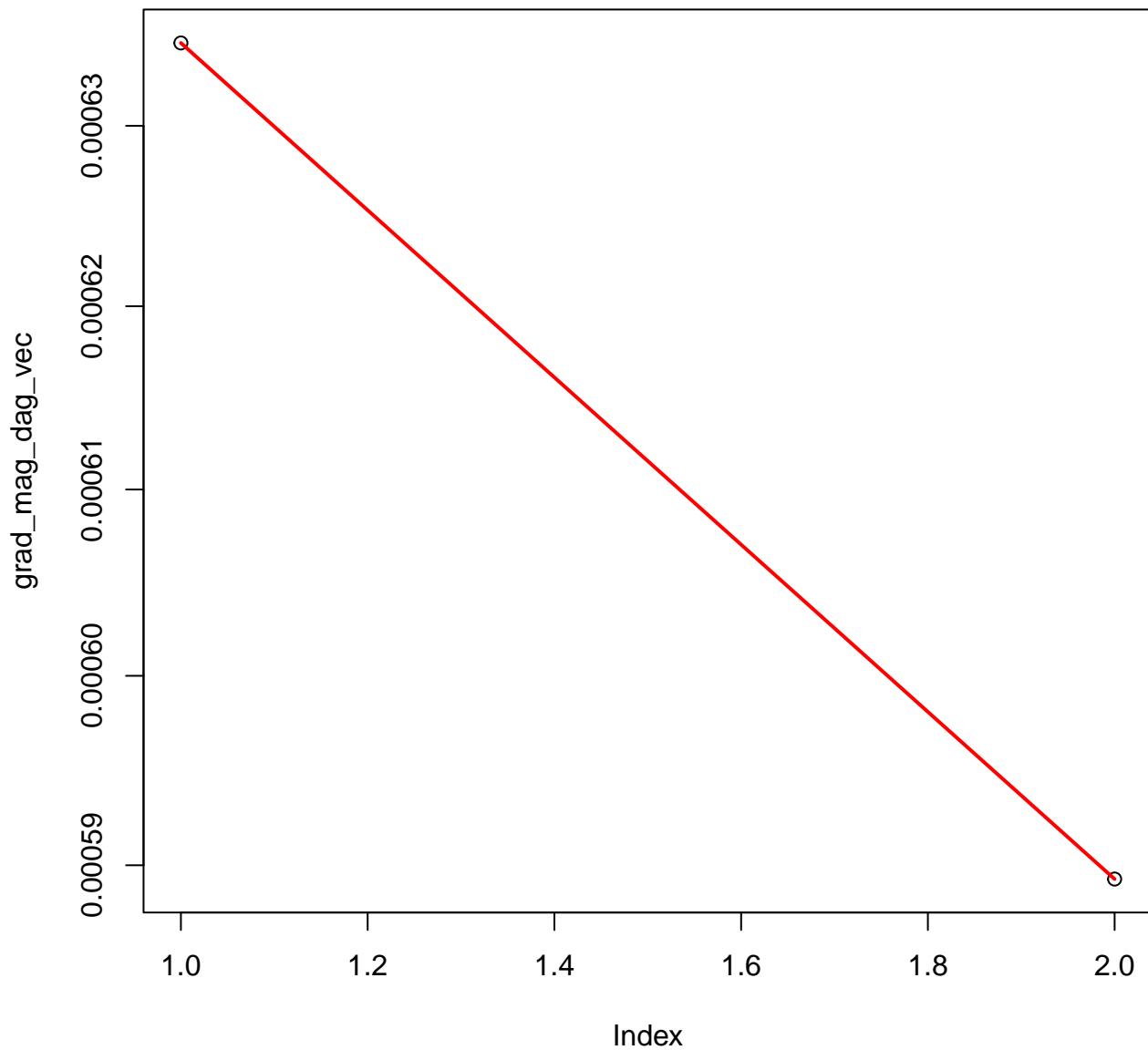
**Value (dag)**



**Gradient Magnitude Evolution (ast)**

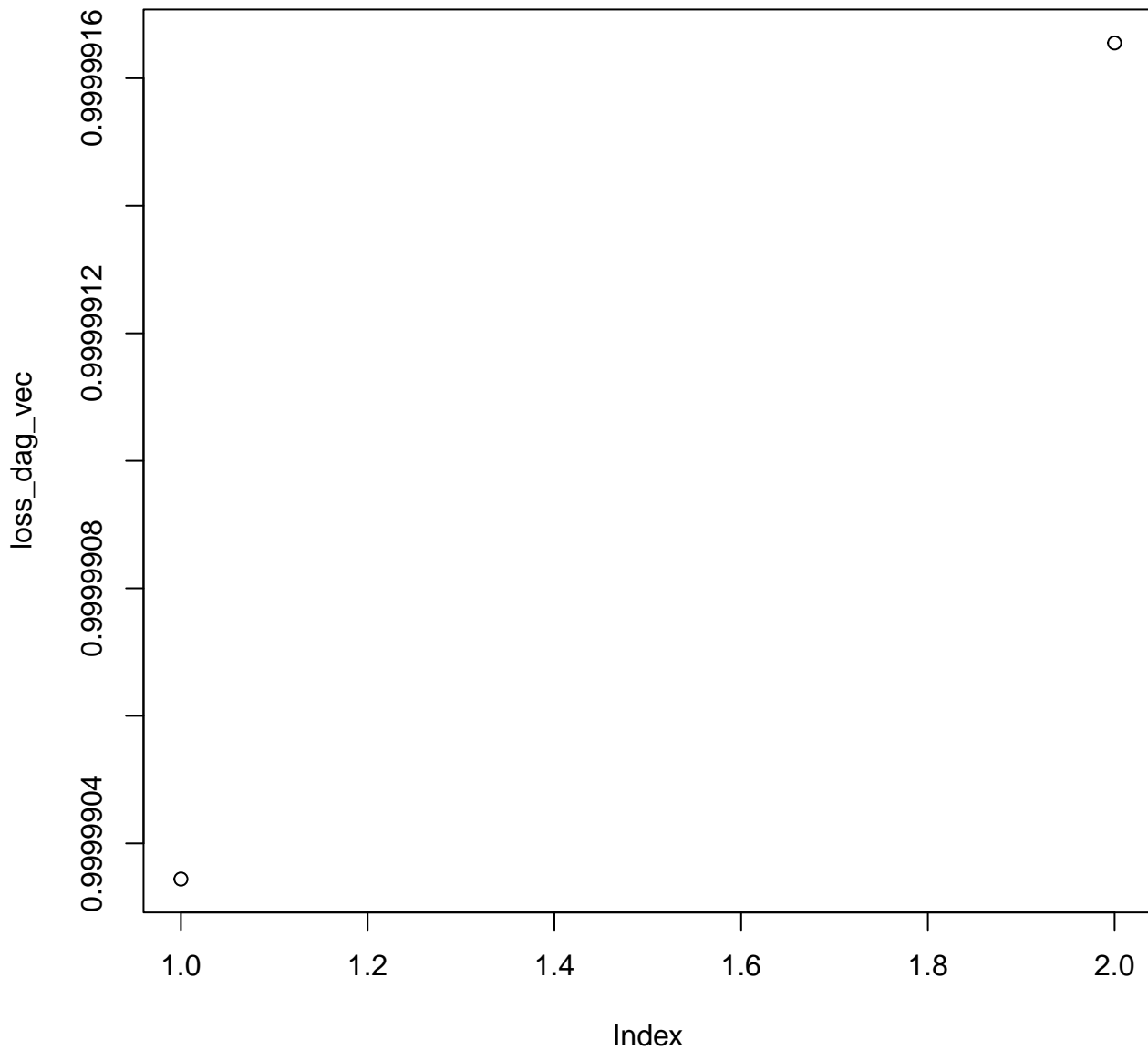


**Gradient Magnitude Evolution (dag)**

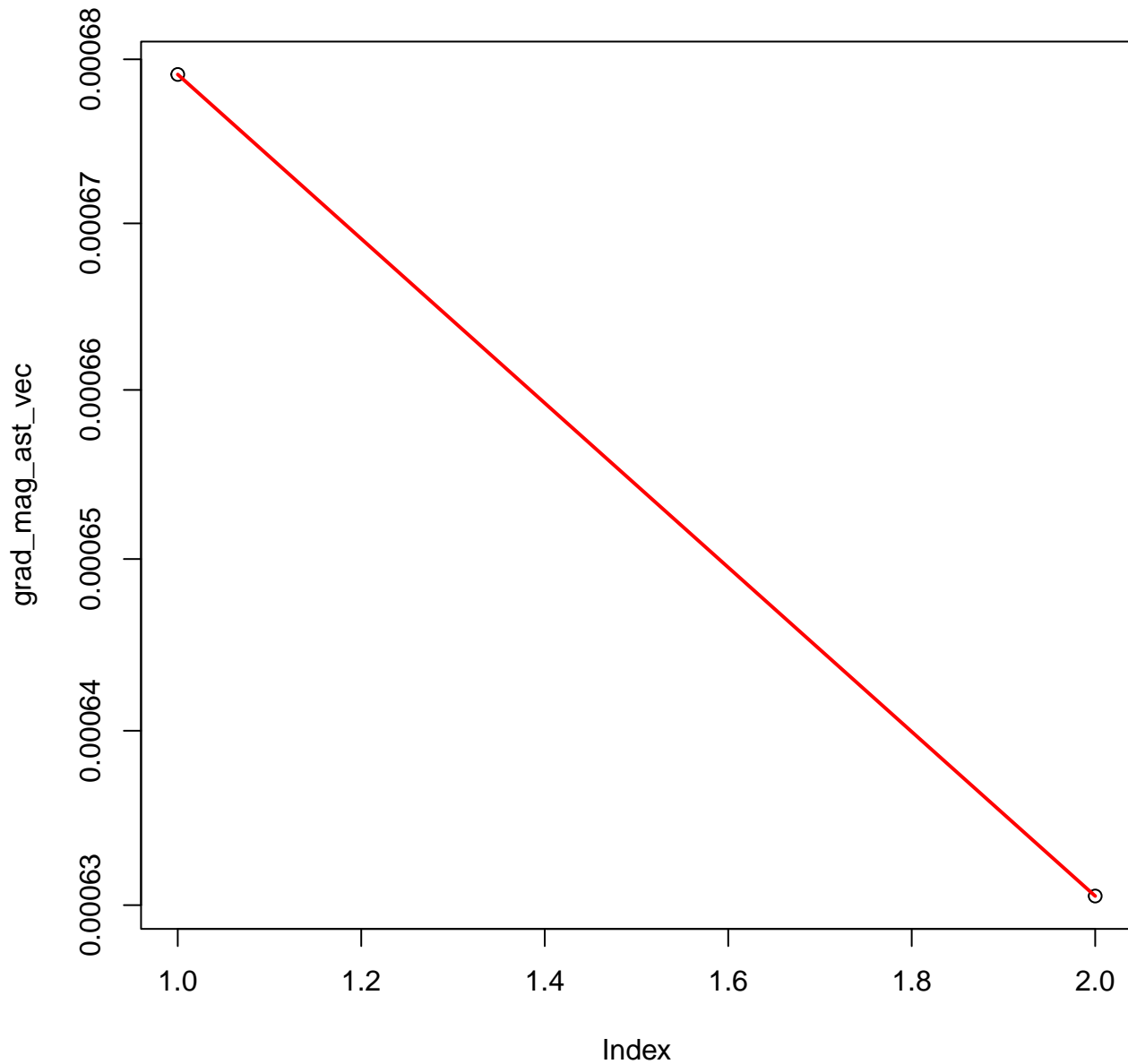




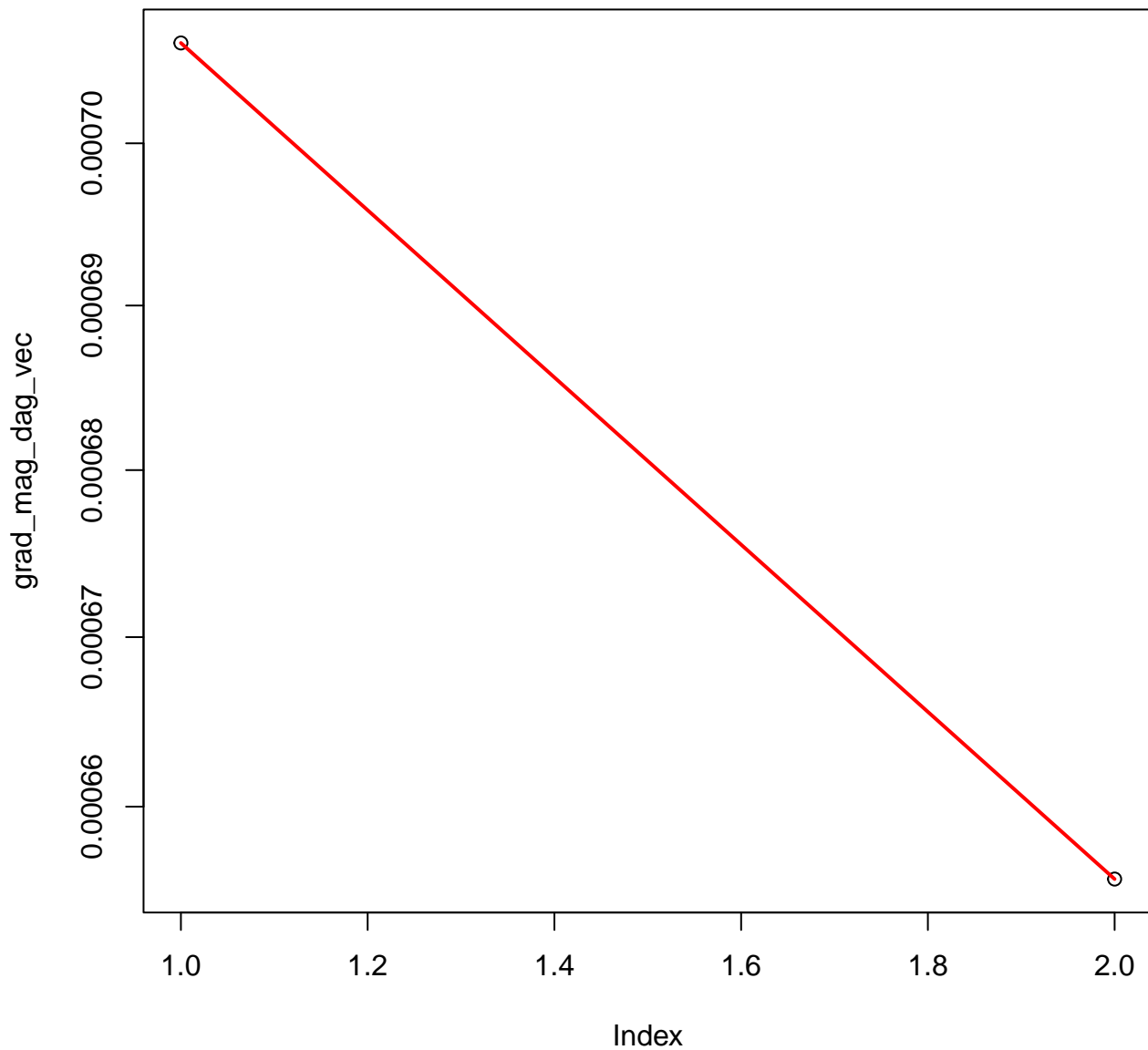
Value (dag)



**Gradient Magnitude Evolution (ast)**



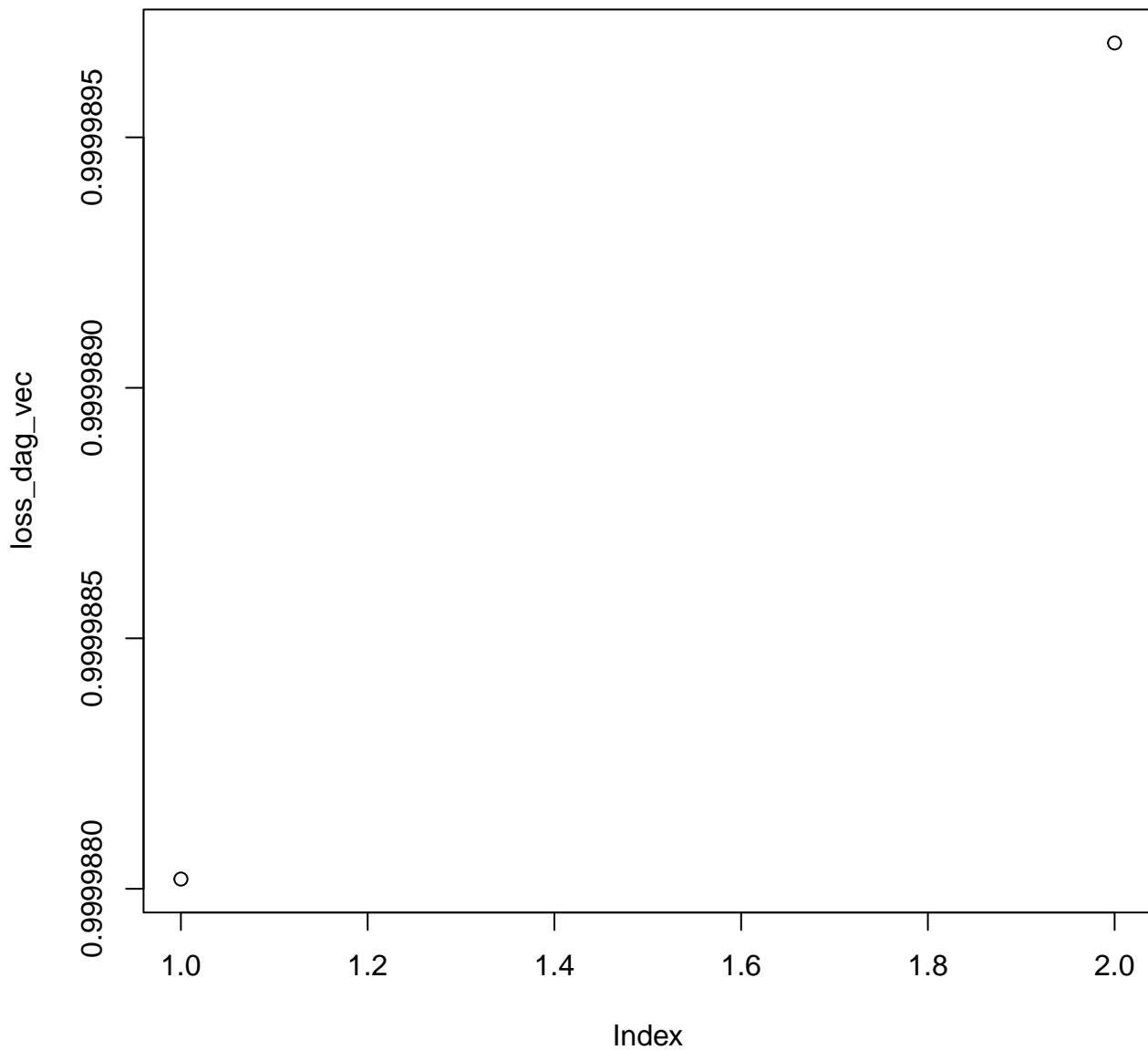
**Gradient Magnitude Evolution (dag)**



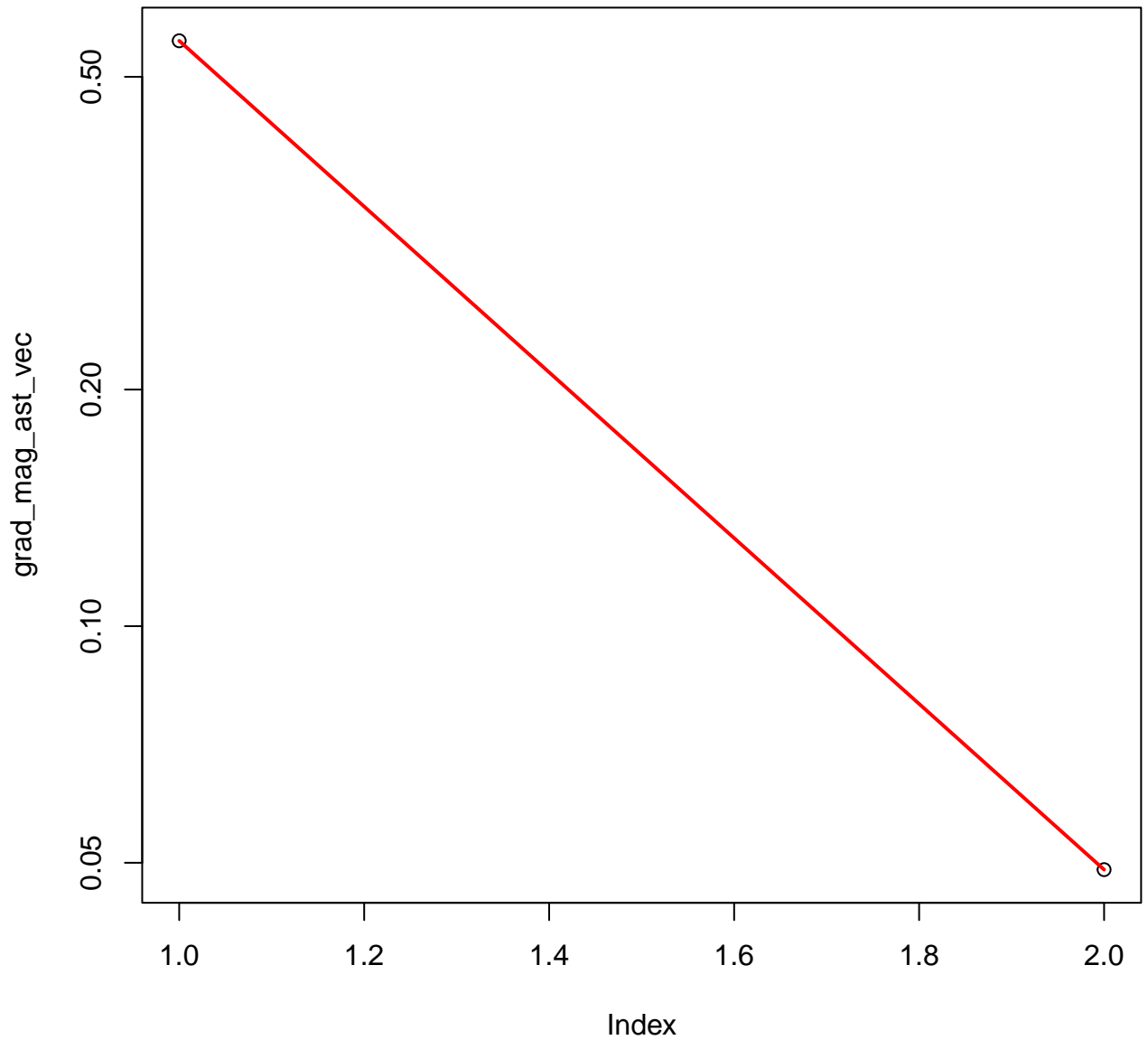




Value (dag)



**Gradient Magnitude Evolution (ast)**



**Value (ast)**

loss\_ast\_vec

0.65  
0.60  
0.55

1.0

1.2

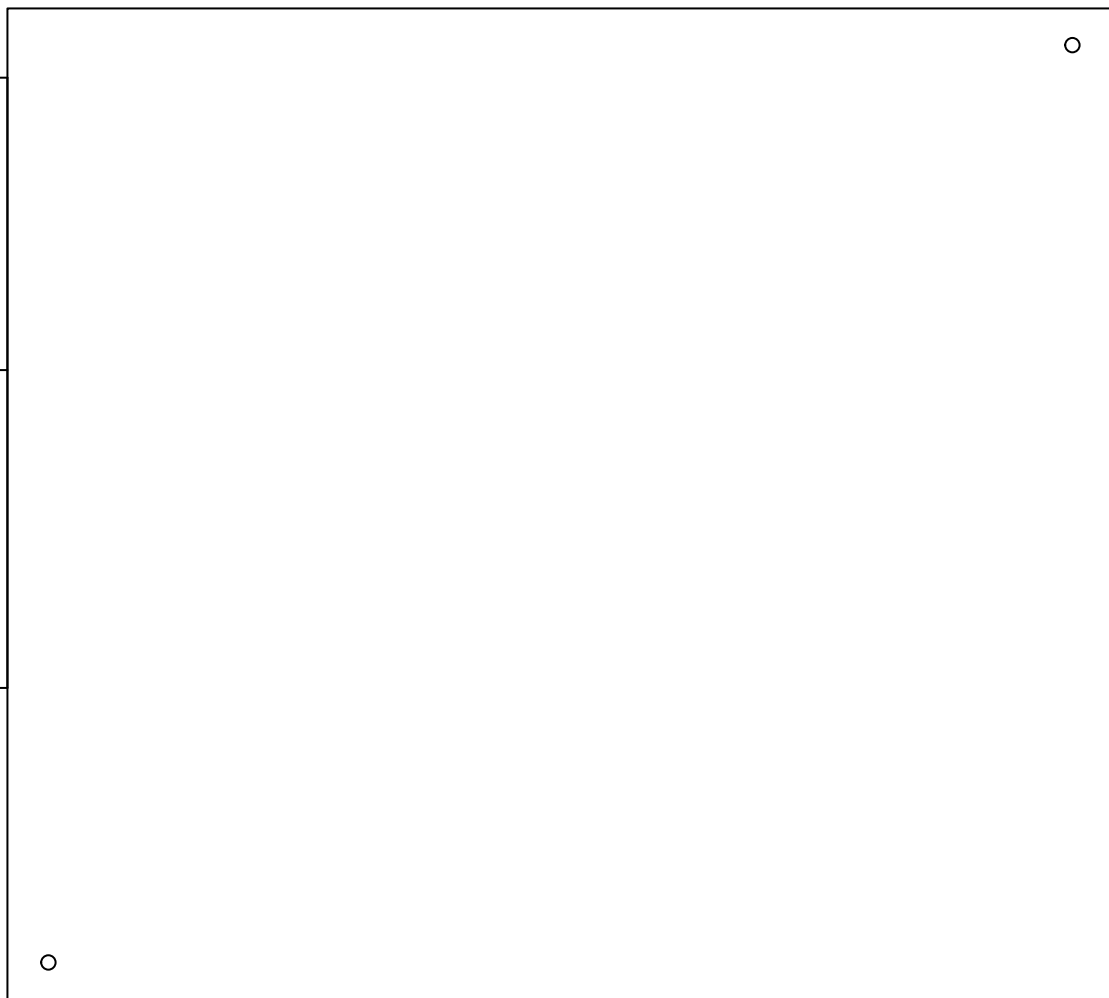
1.4

1.6

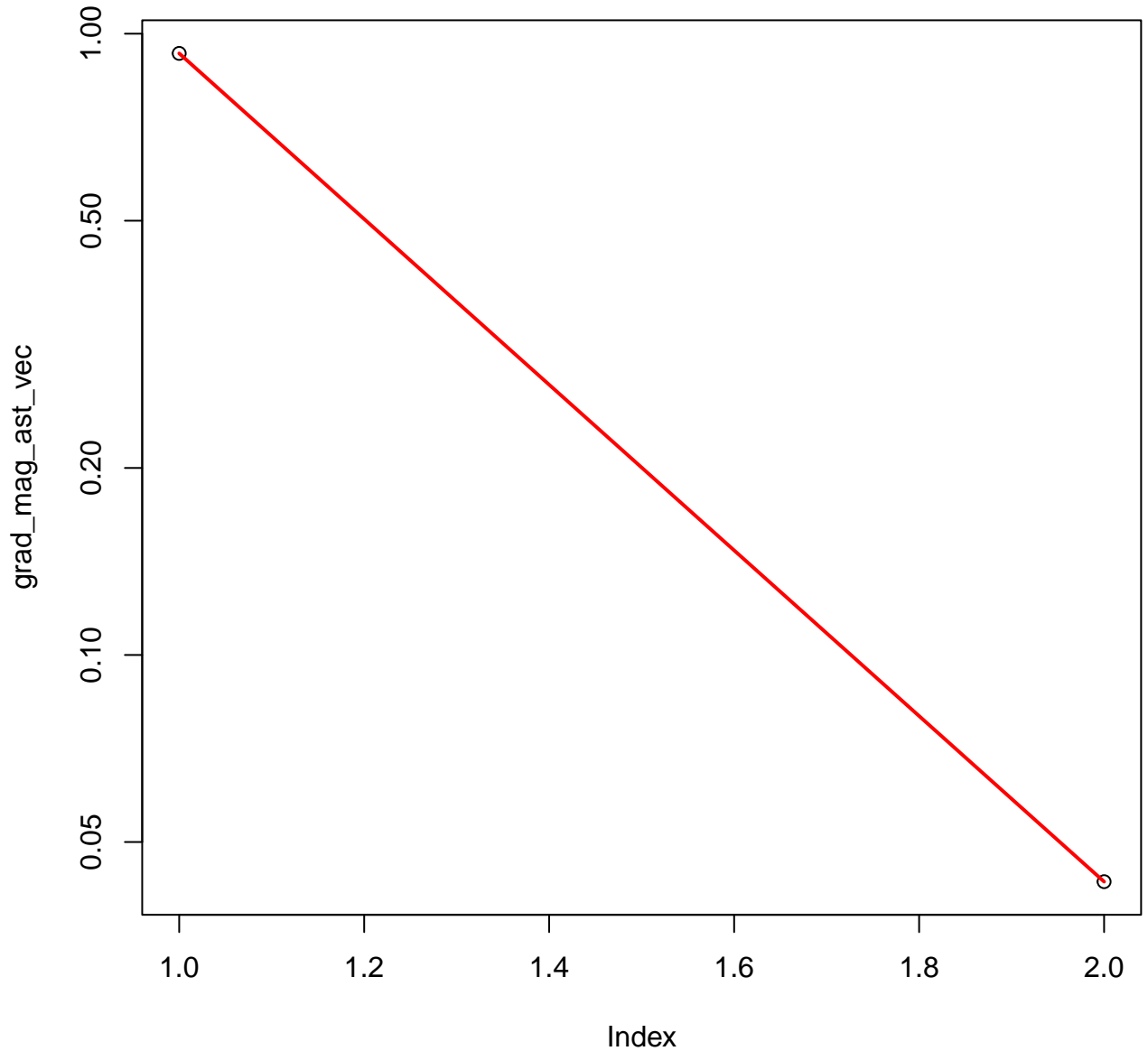
1.8

2.0

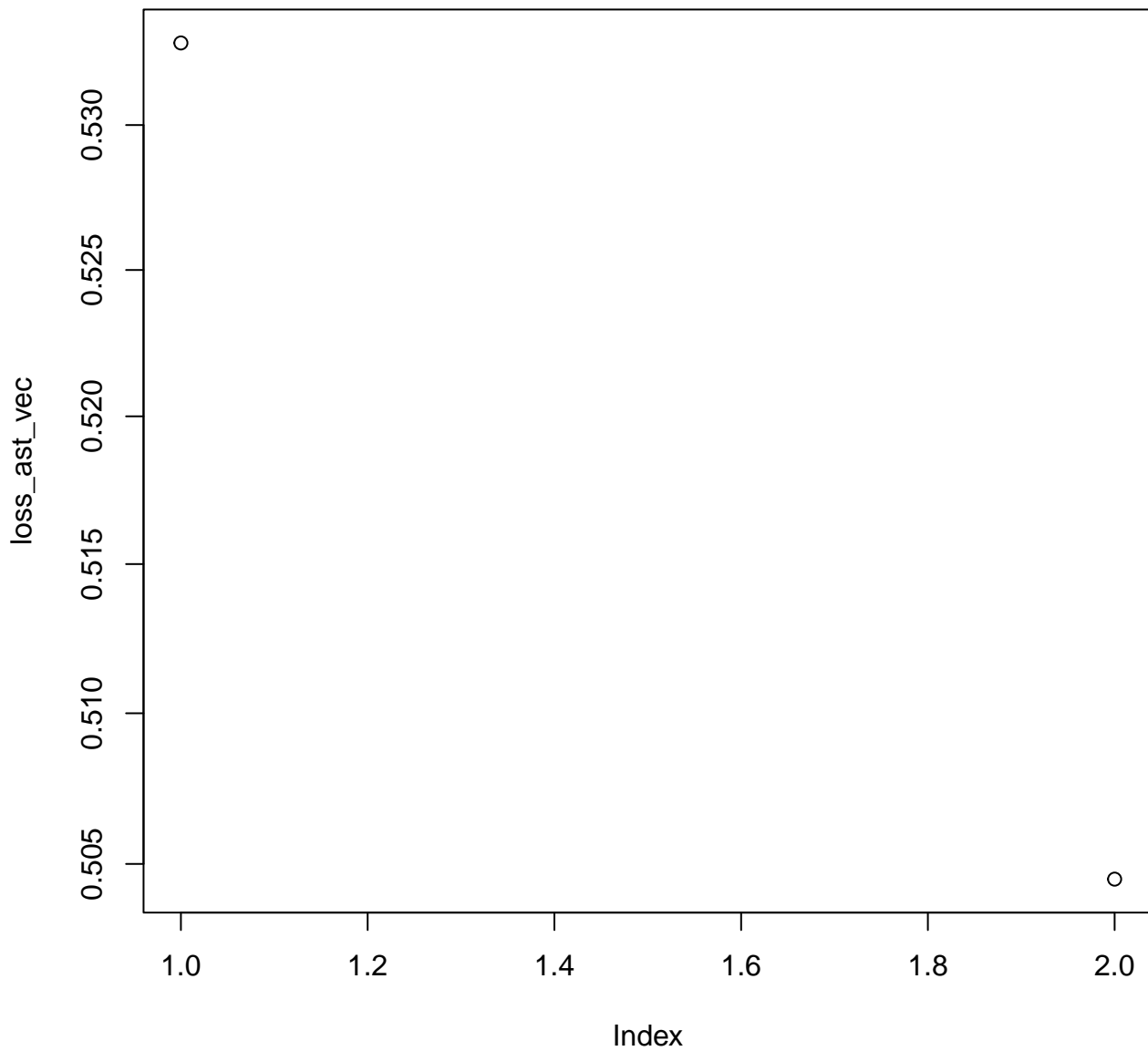
Index



**Gradient Magnitude Evolution (ast)**



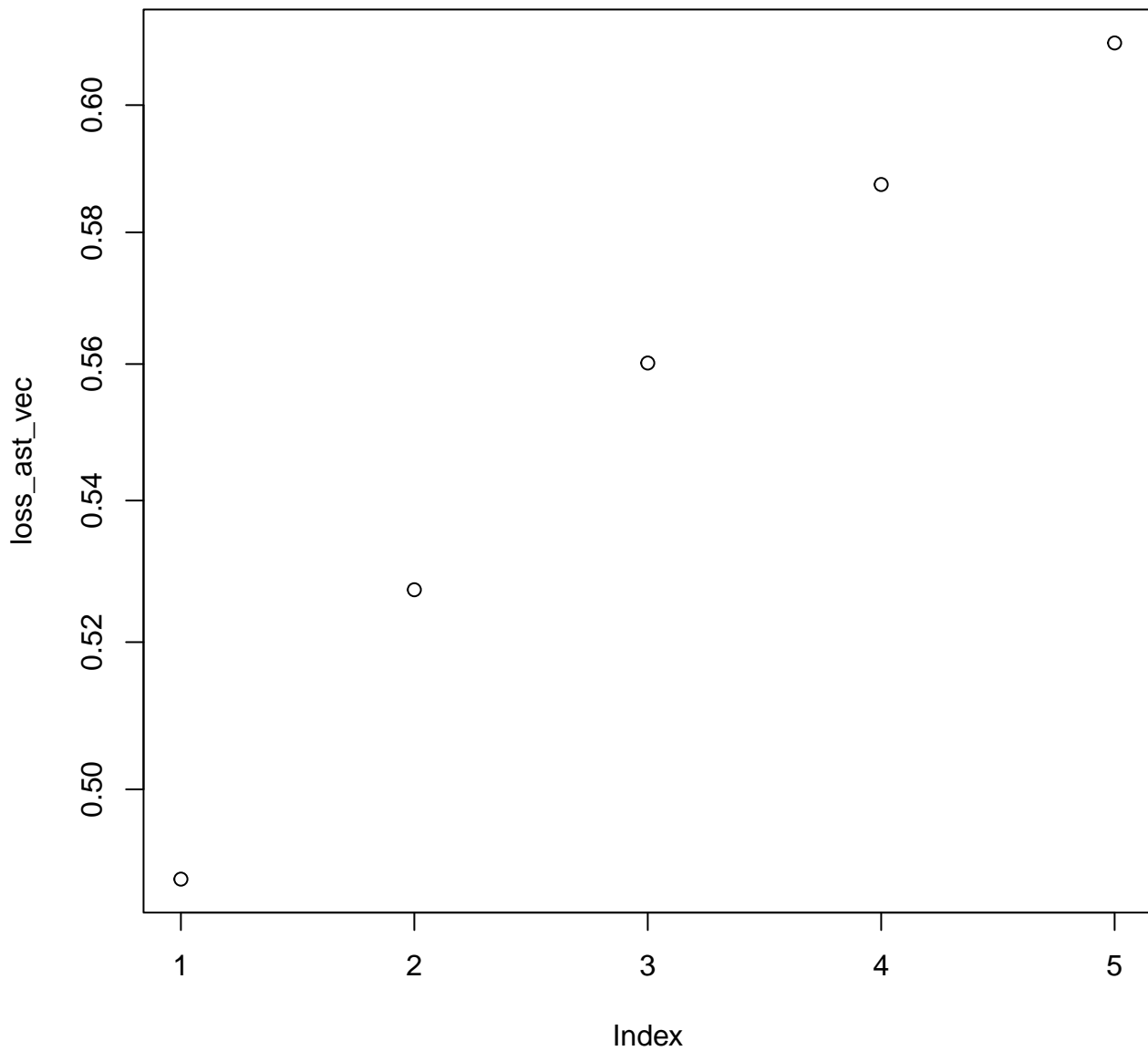
Value (ast)



**Gradient Magnitude Evolution (ast)**

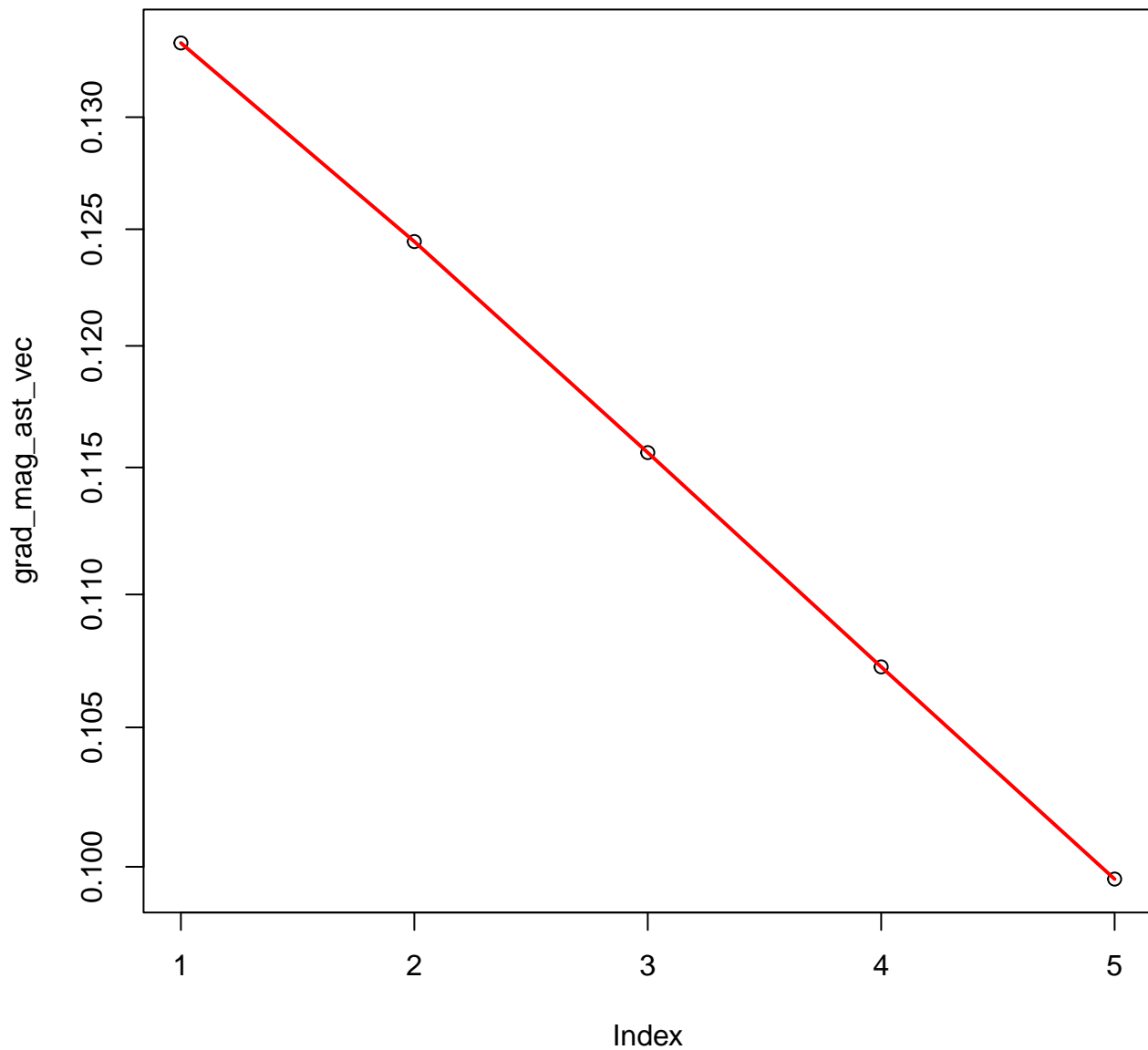


Value (ast)

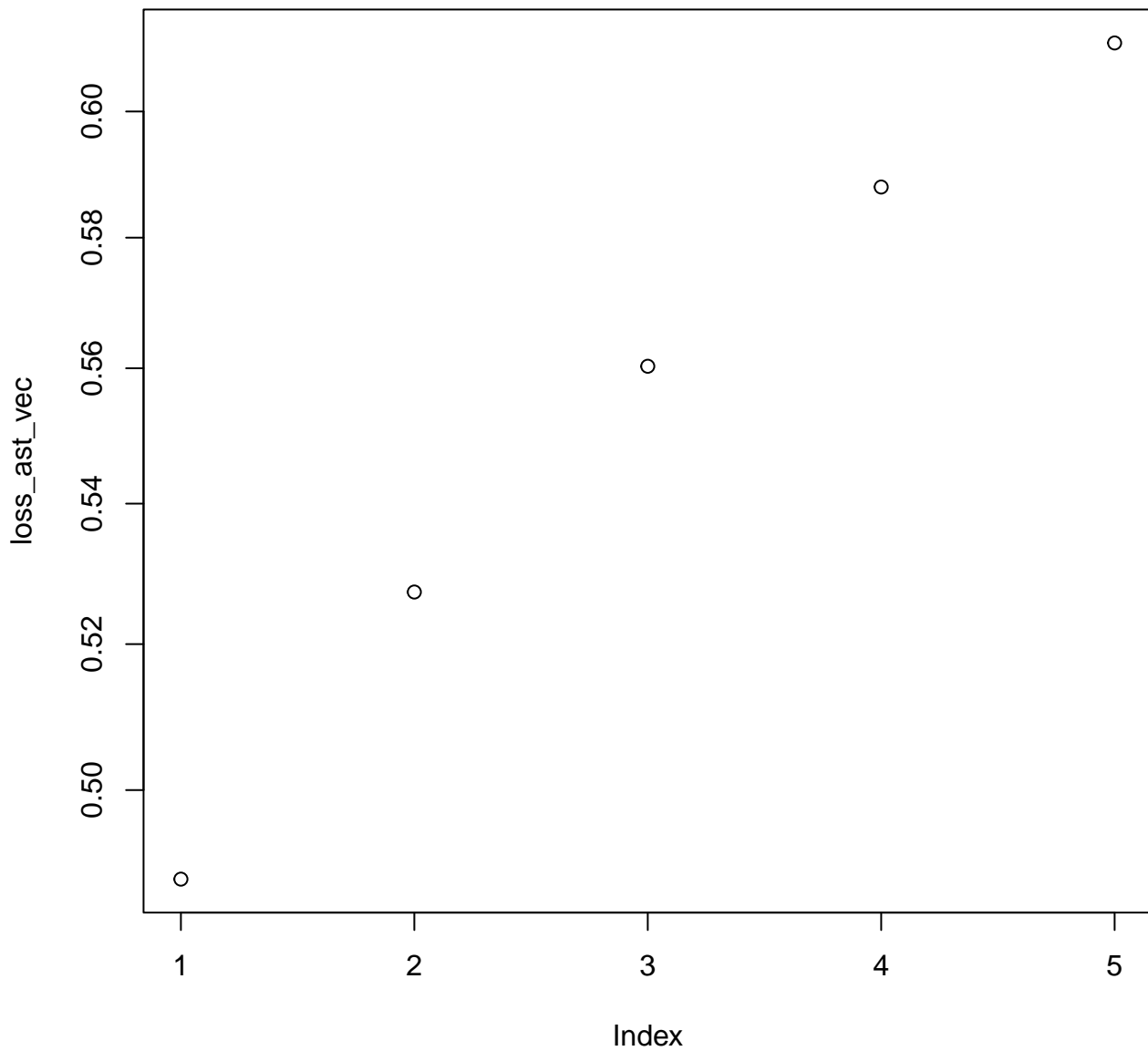




**Gradient Magnitude Evolution (ast)**



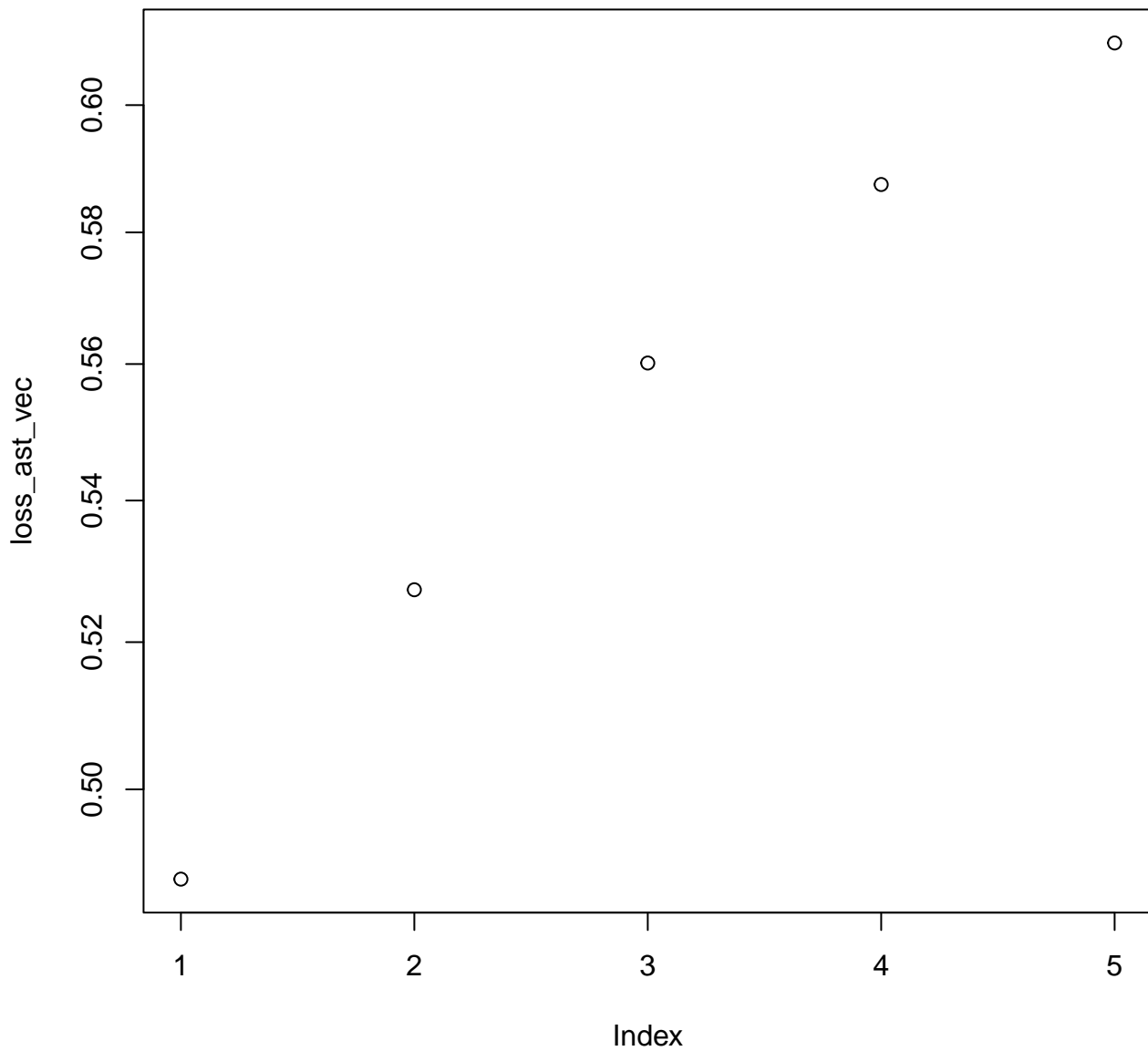
**Value (ast)**



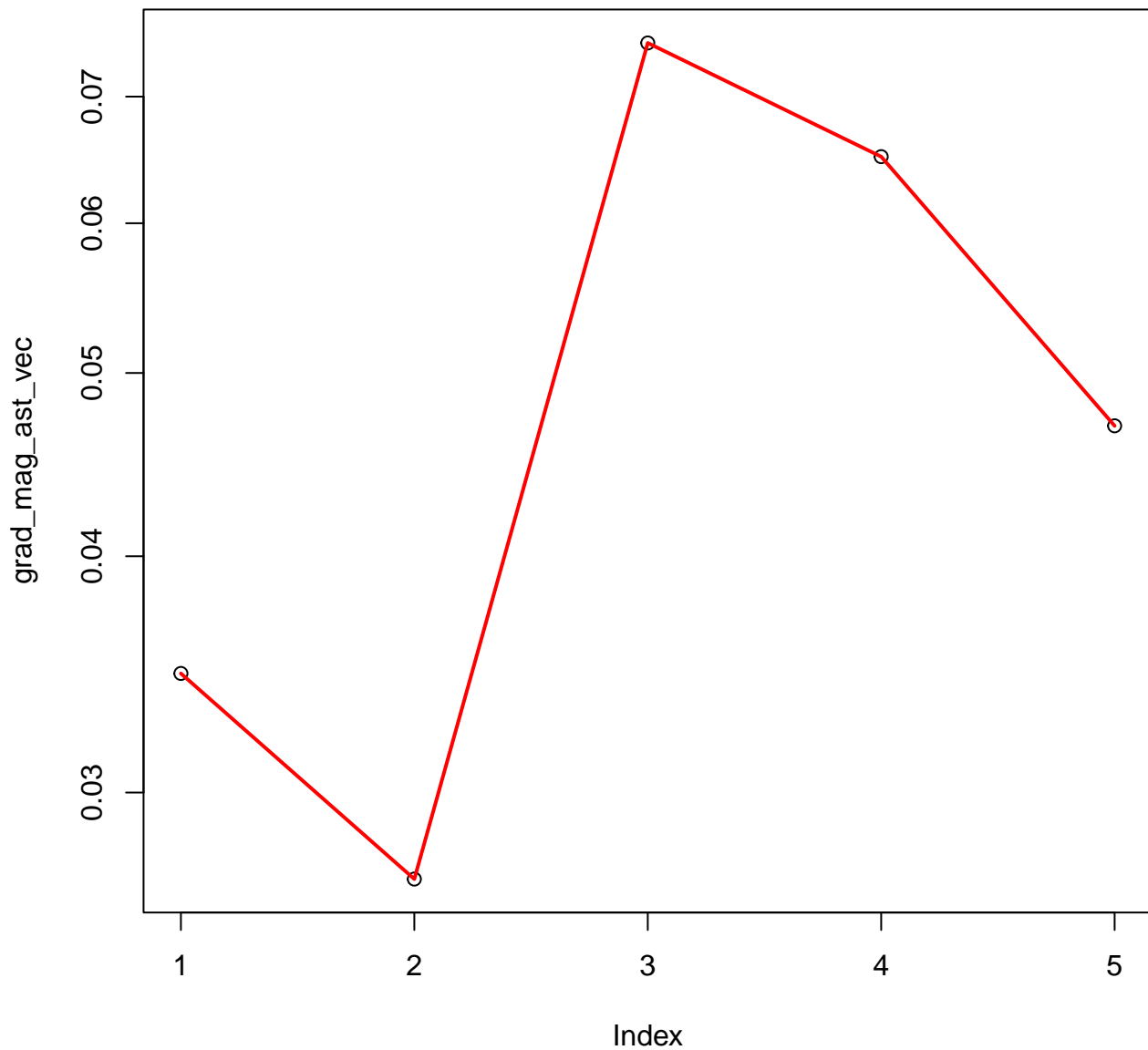
**Gradient Magnitude Evolution (ast)**



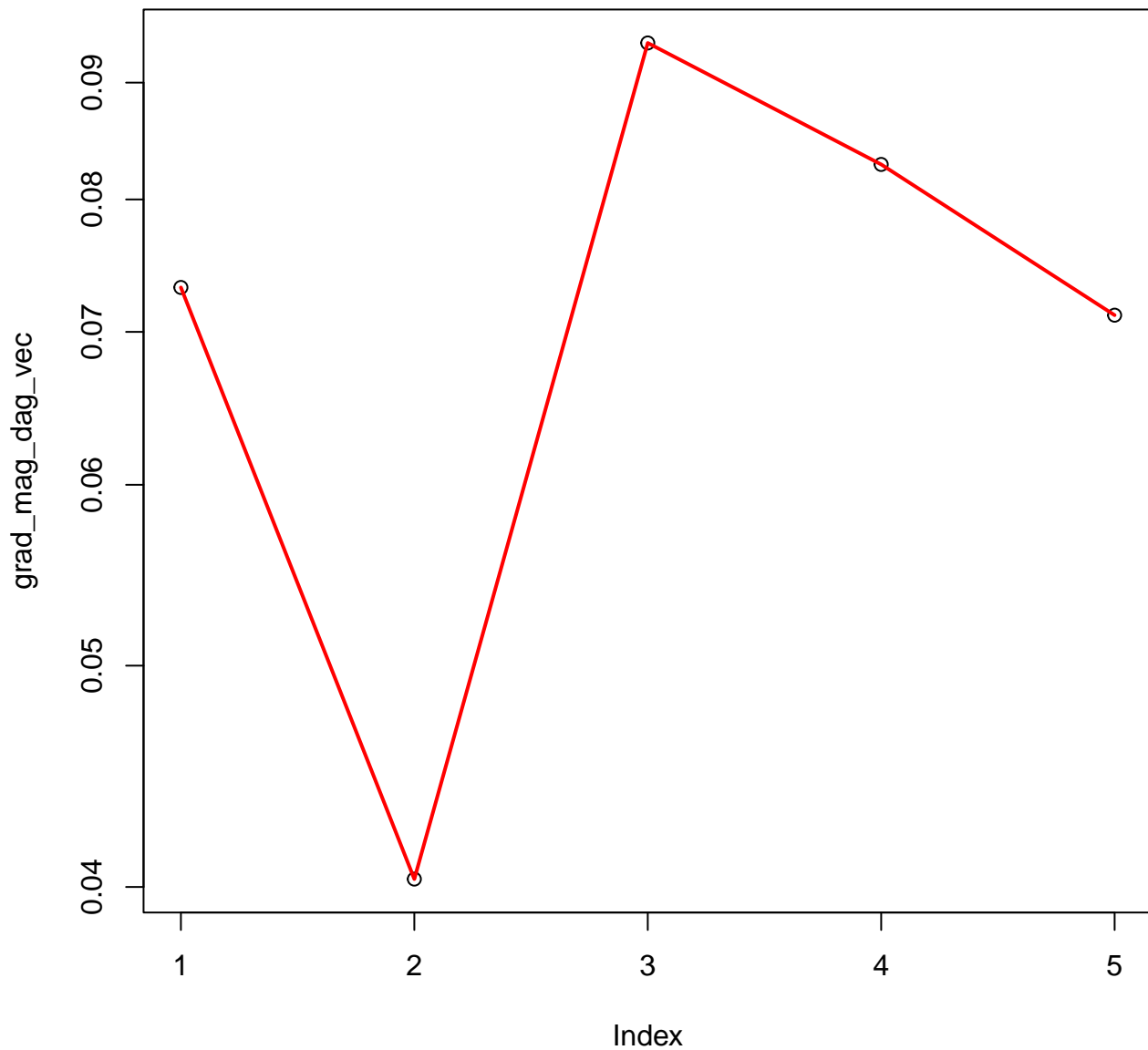
**Value (ast)**



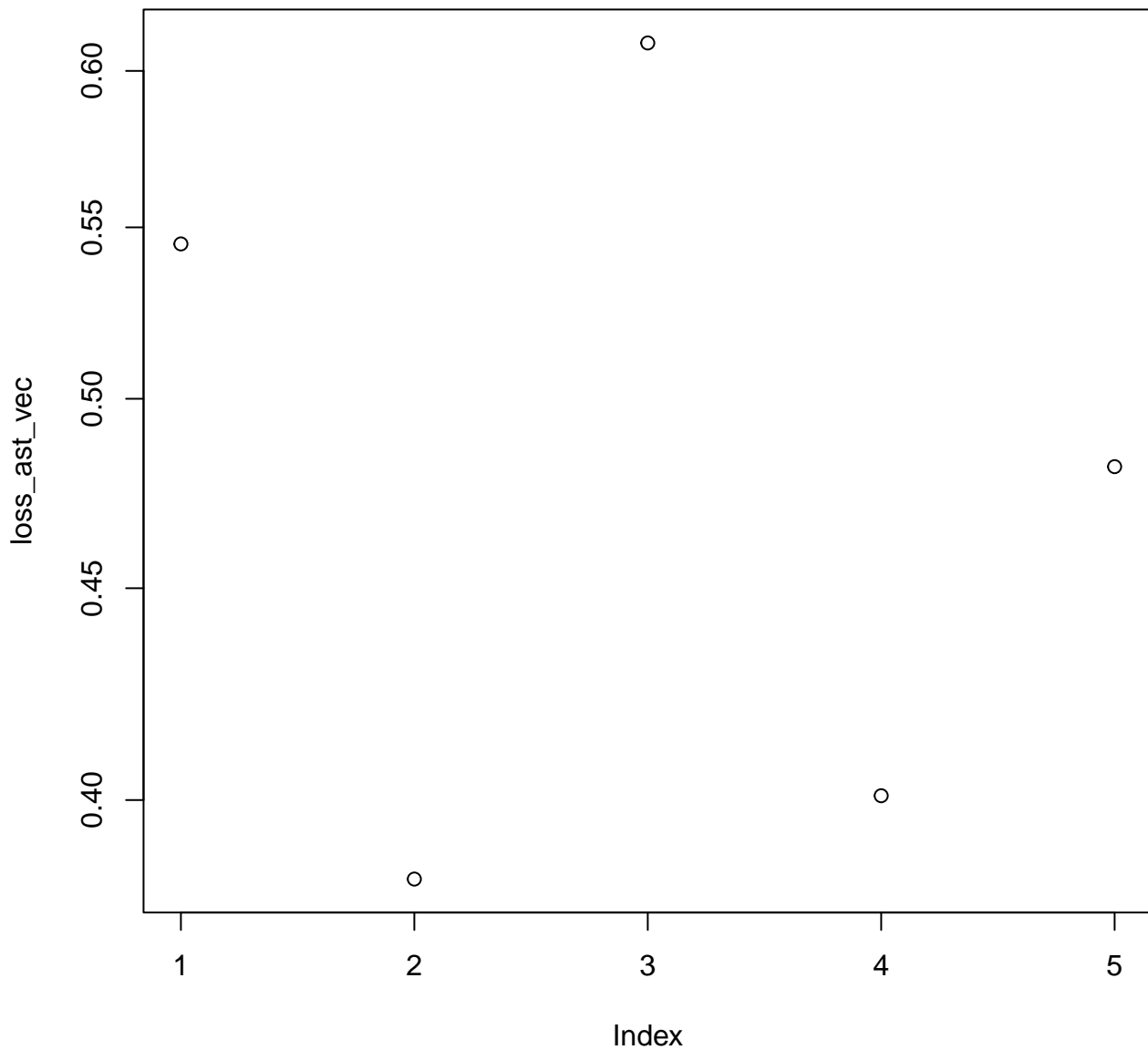
**Gradient Magnitude Evolution (ast)**



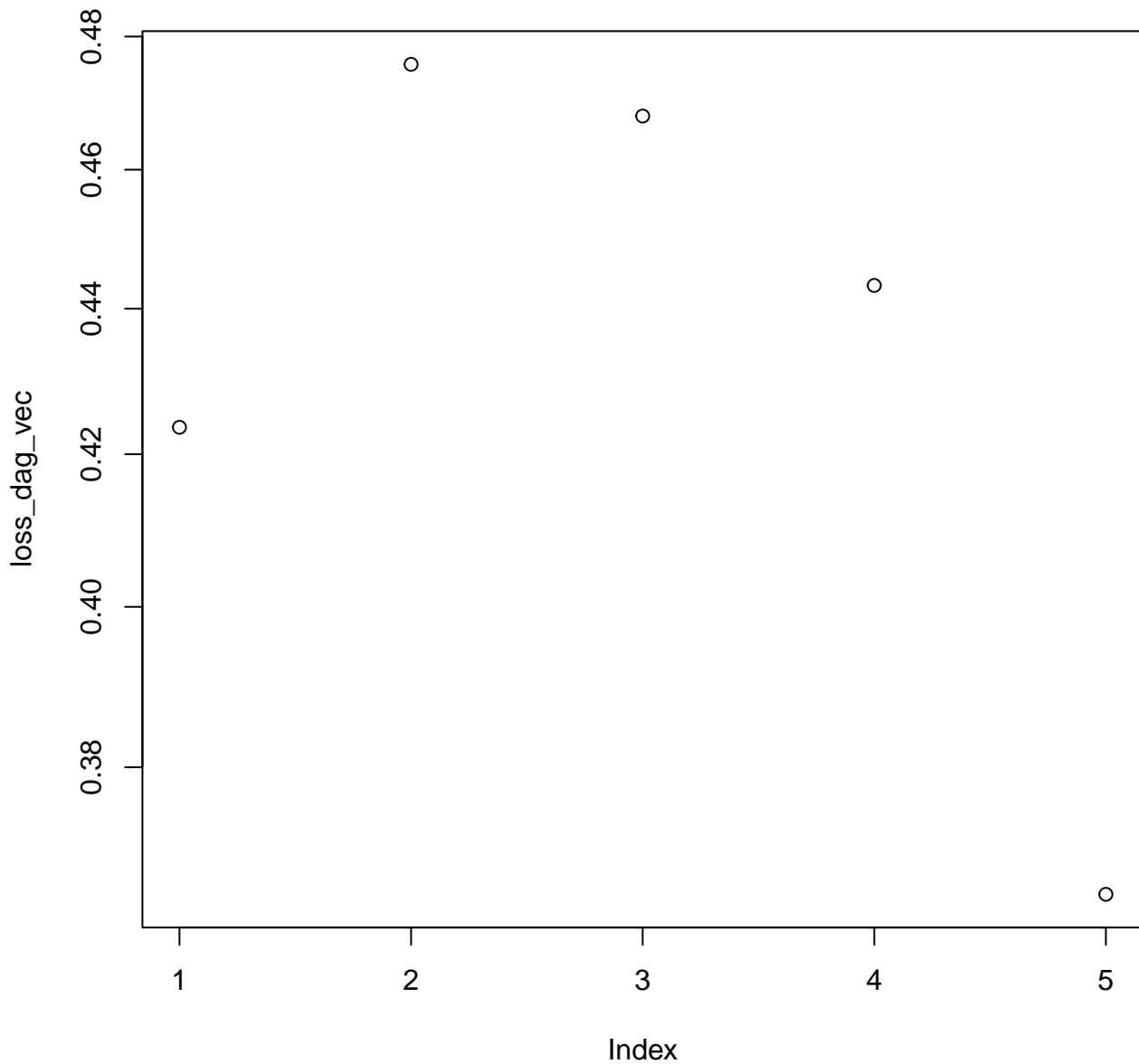
**Gradient Magnitude Evolution (dag)**



**Value (ast)**

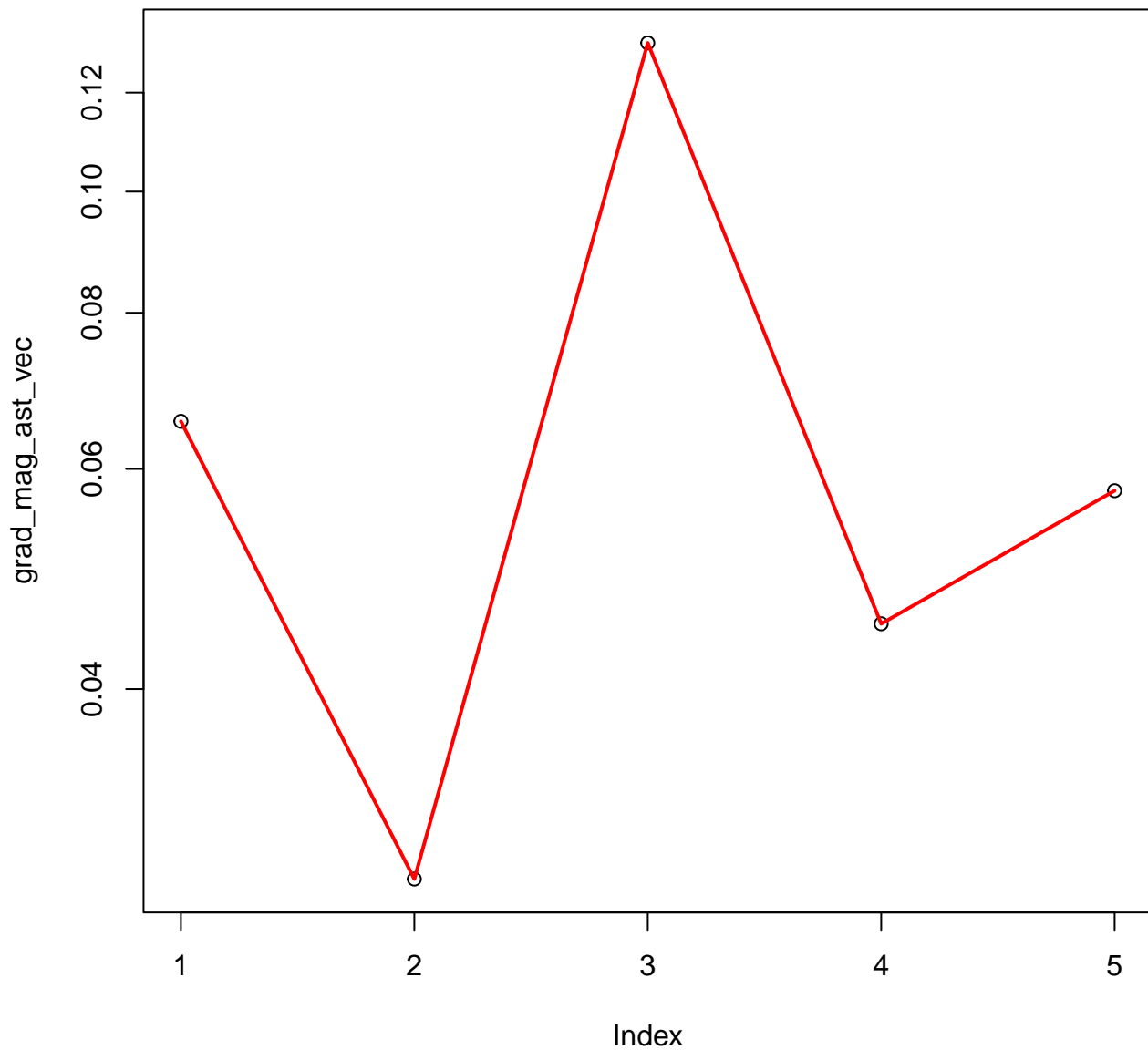


**Value (dag)**

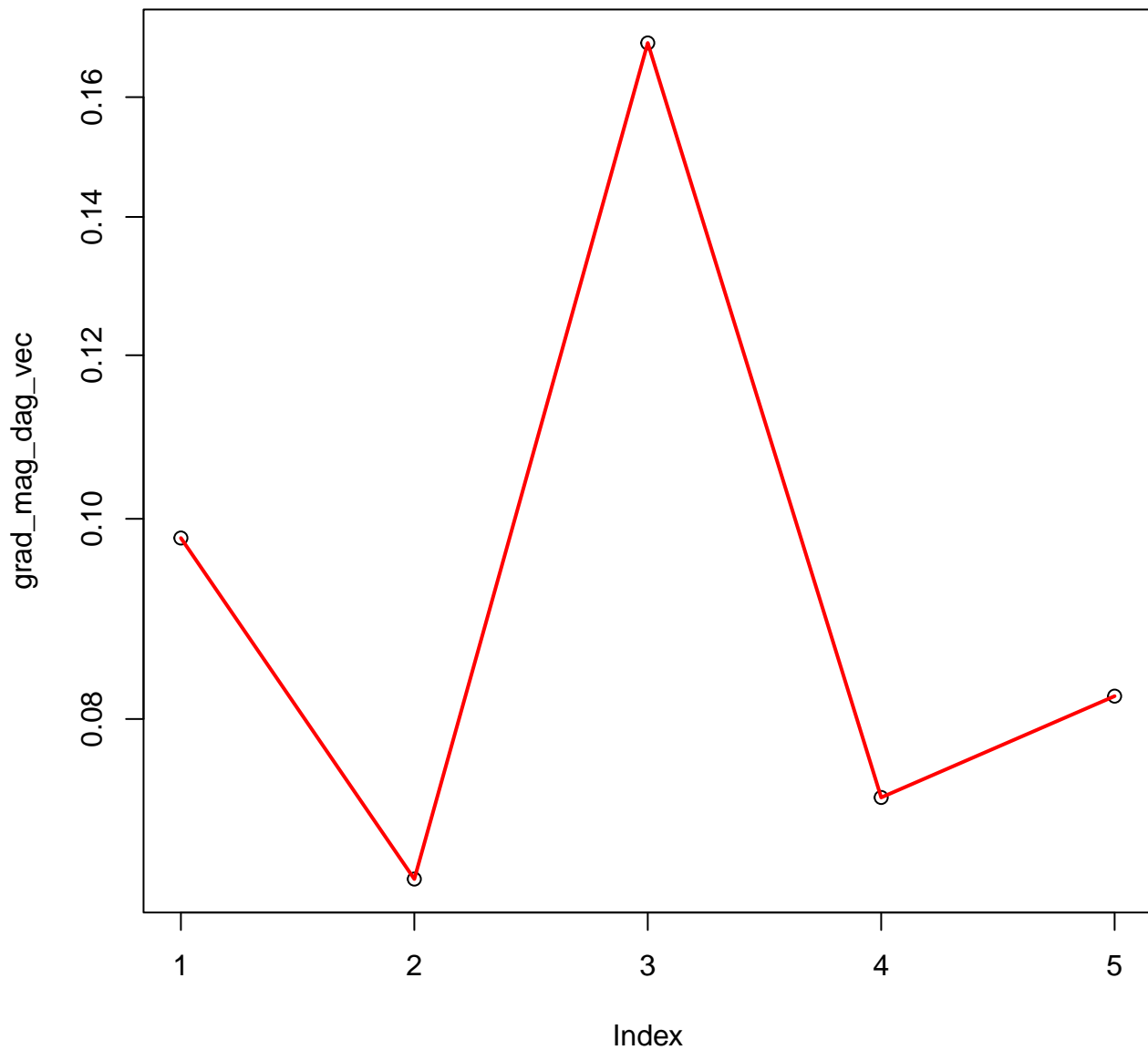




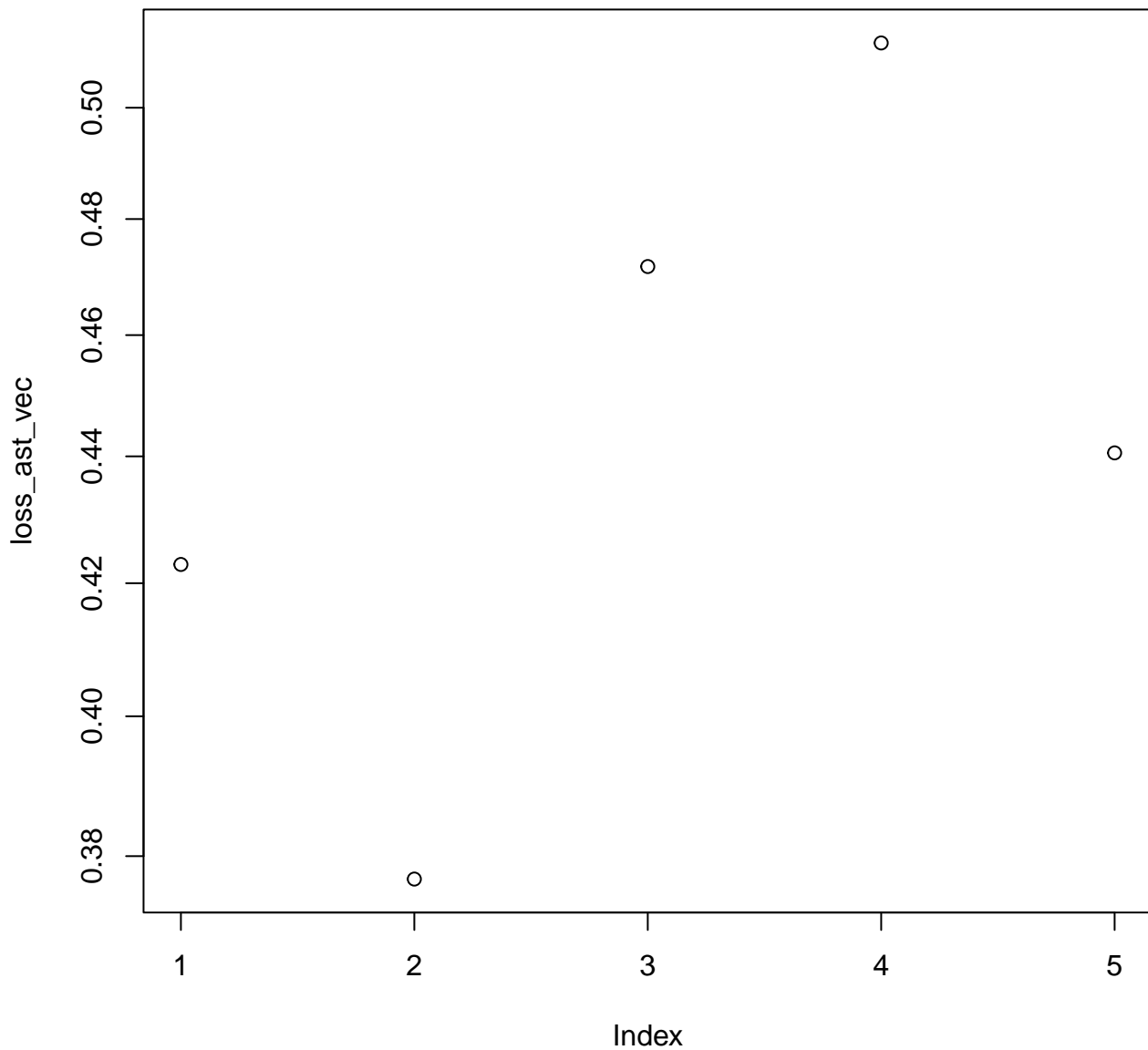
**Gradient Magnitude Evolution (ast)**



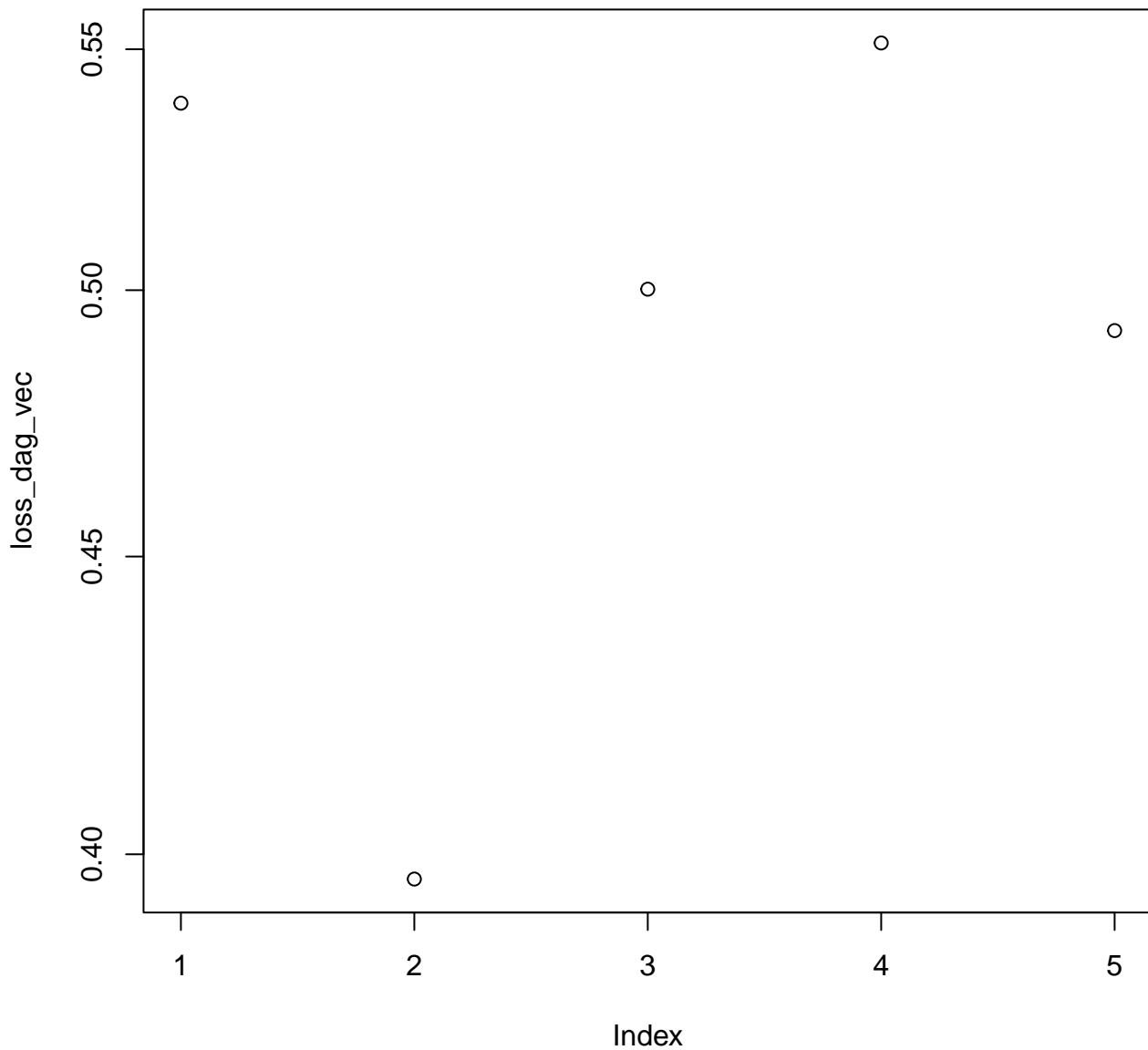
**Gradient Magnitude Evolution (dag)**



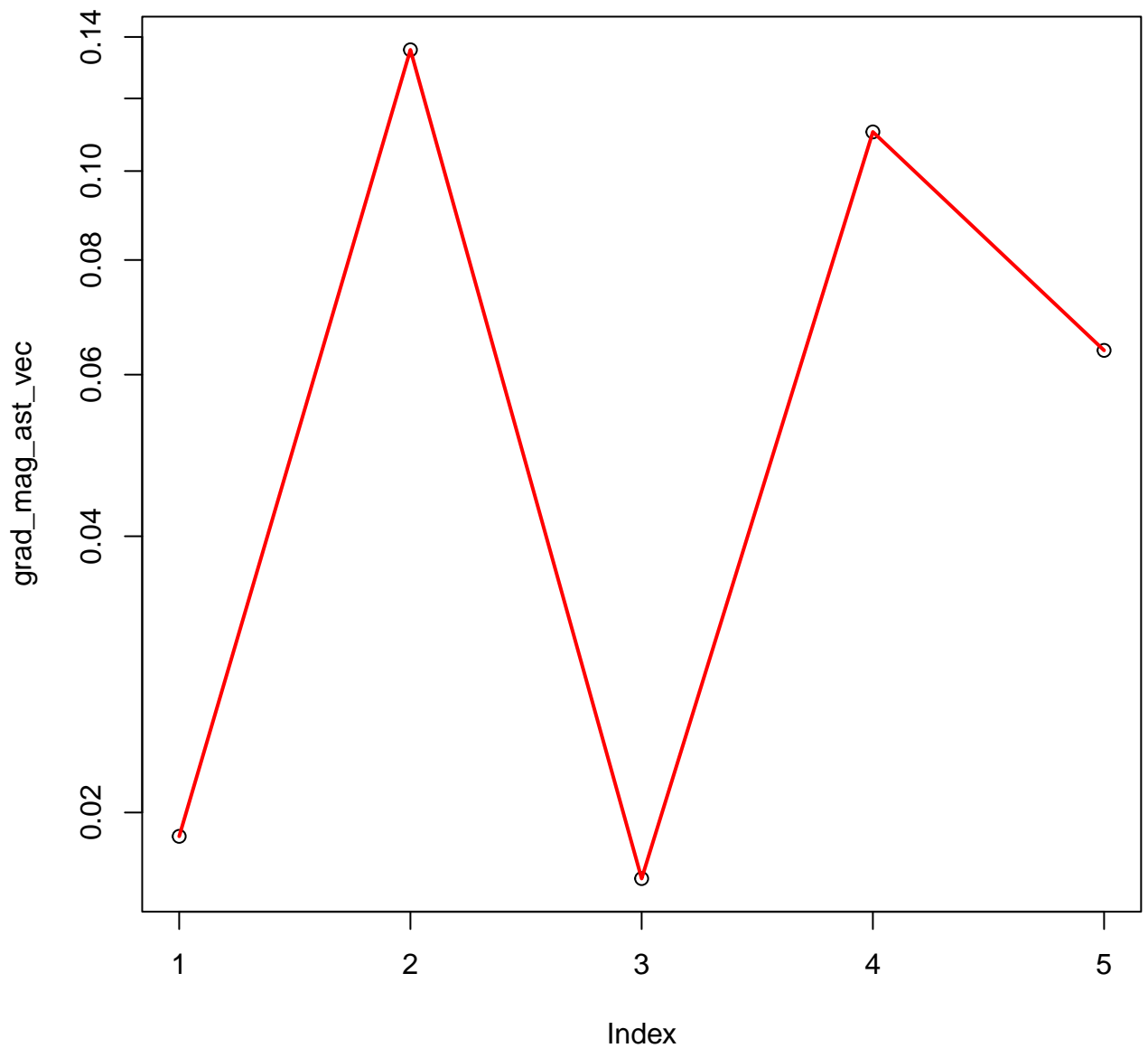
**Value (ast)**



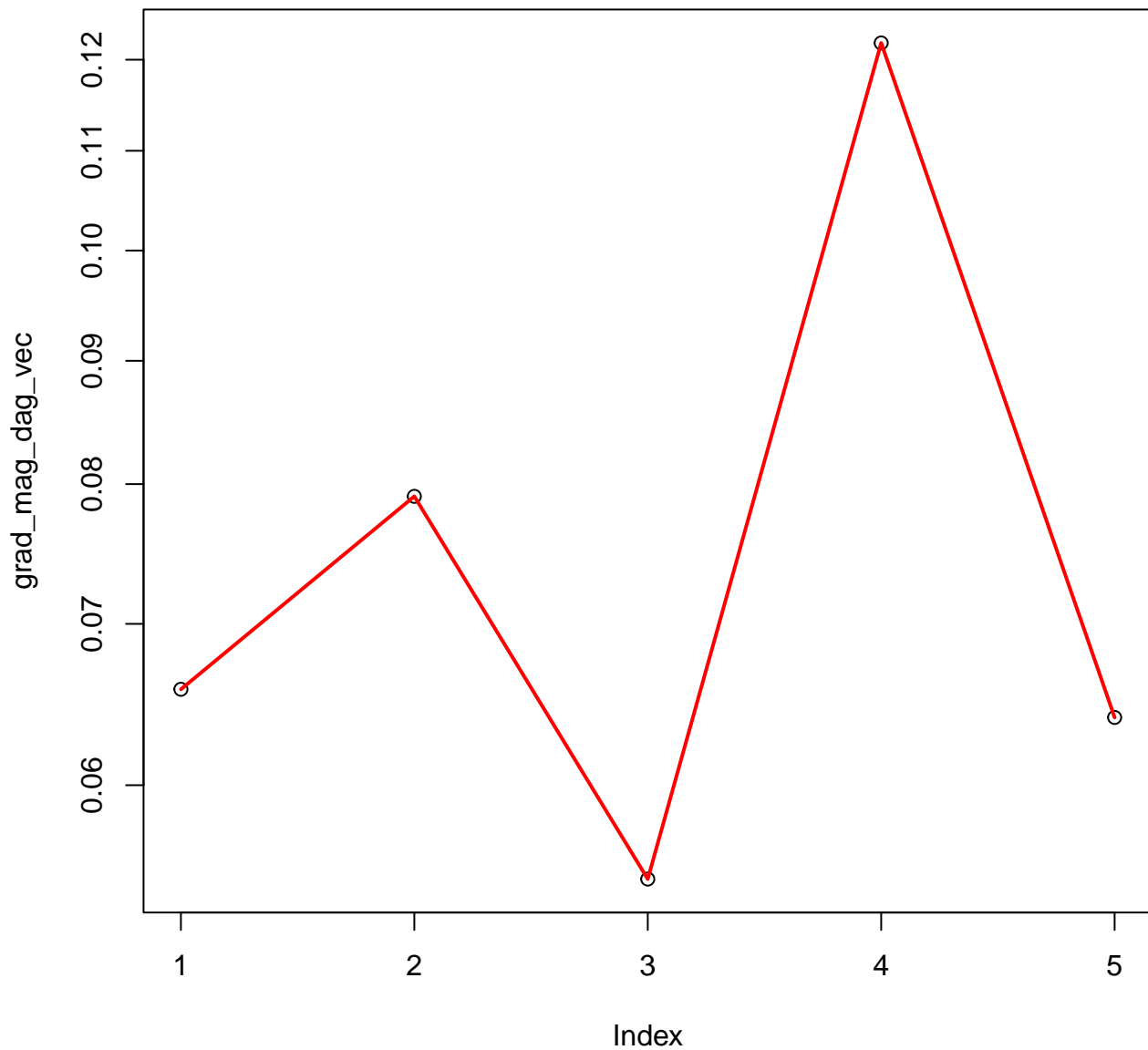
**Value (dag)**



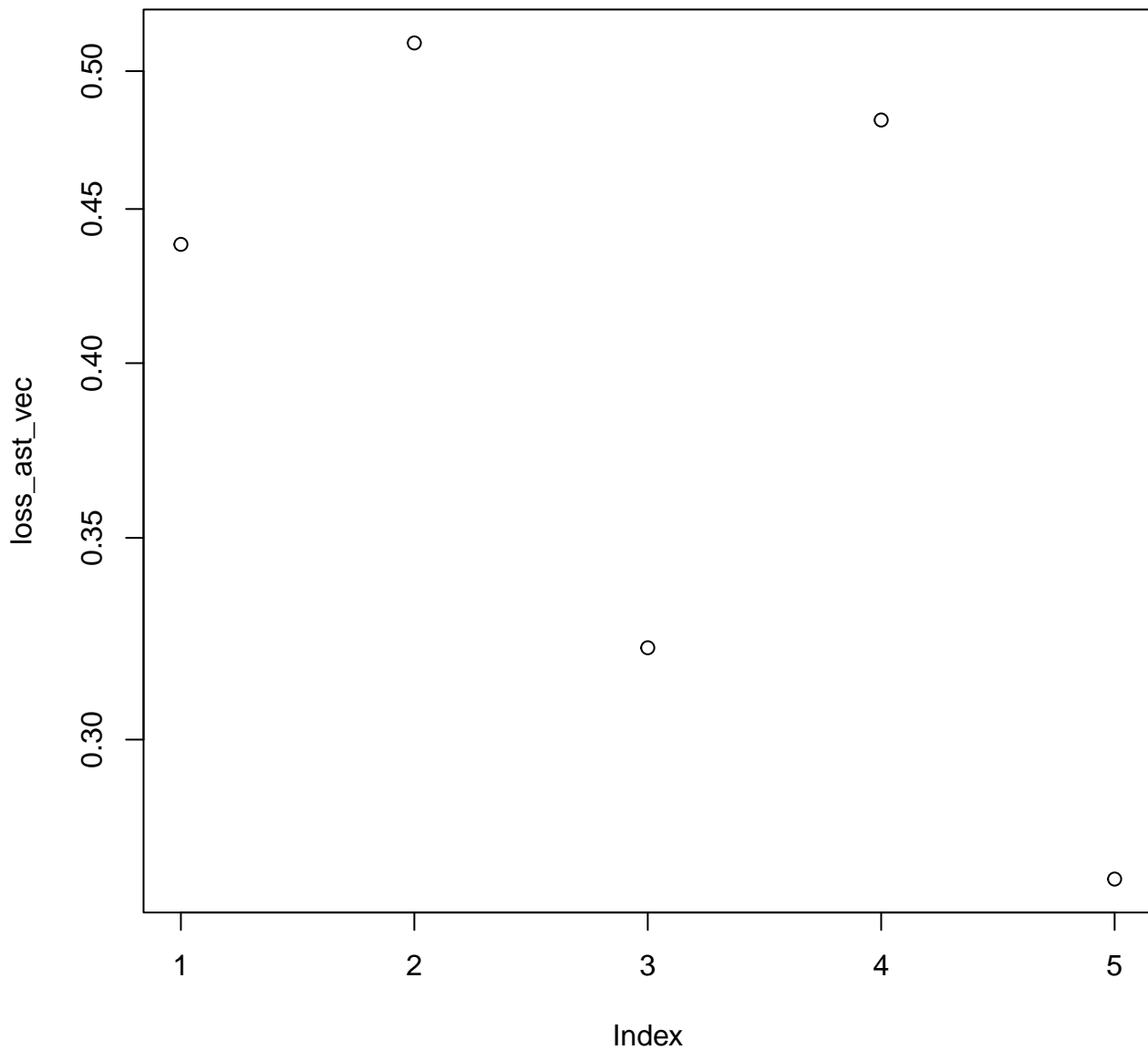
**Gradient Magnitude Evolution (ast)**



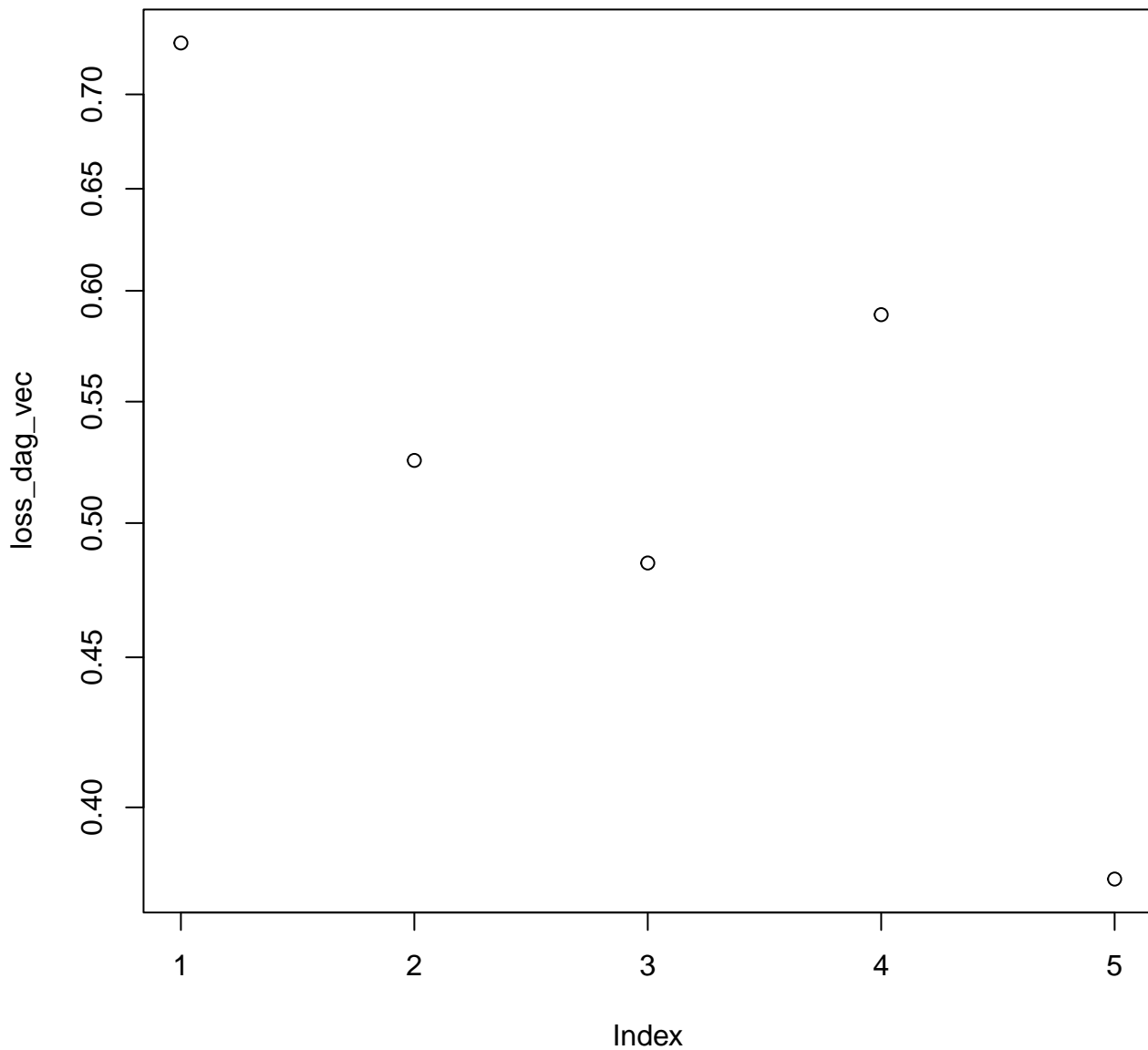
**Gradient Magnitude Evolution (dag)**



**Value (ast)**



**Value (dag)**

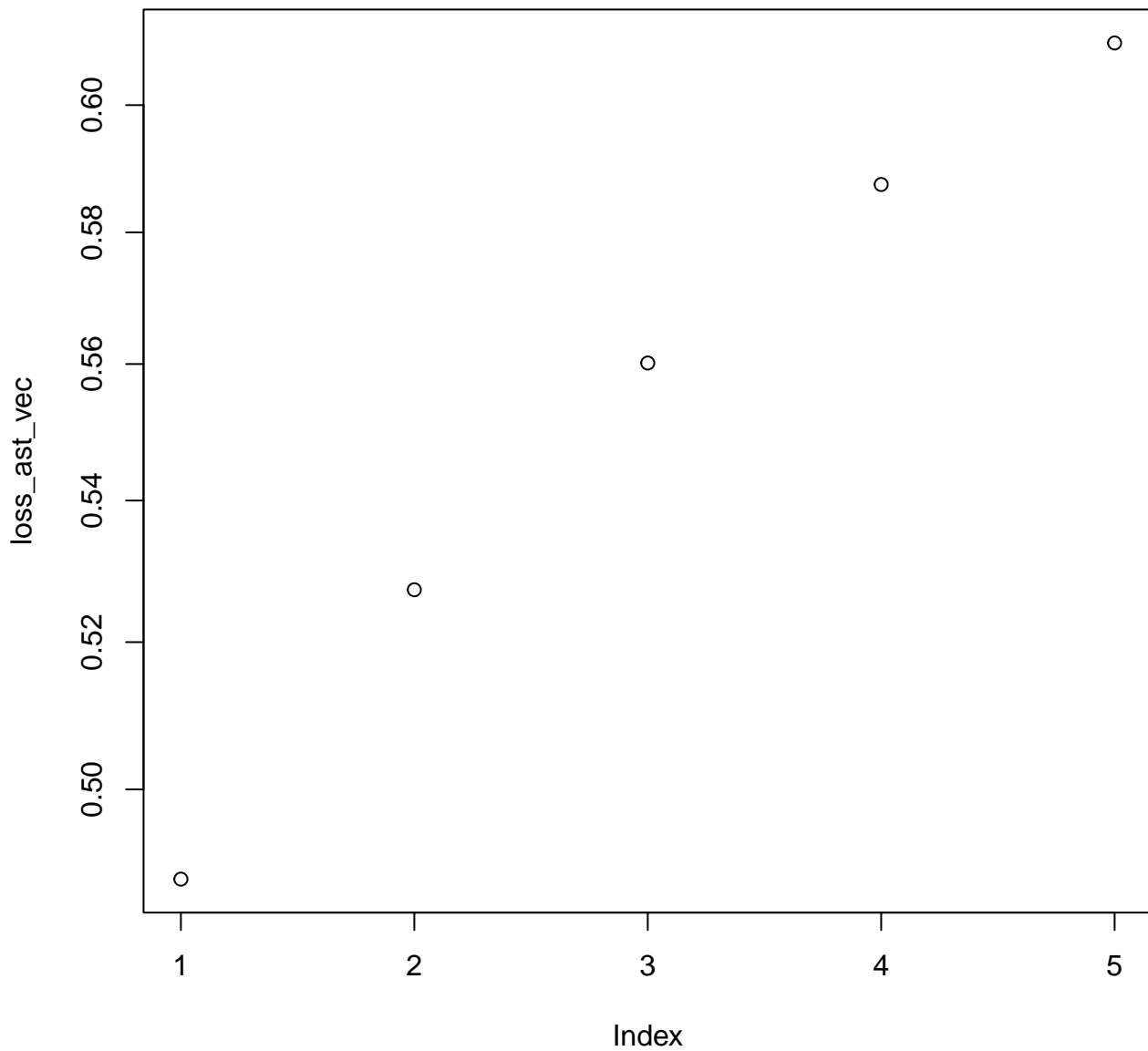




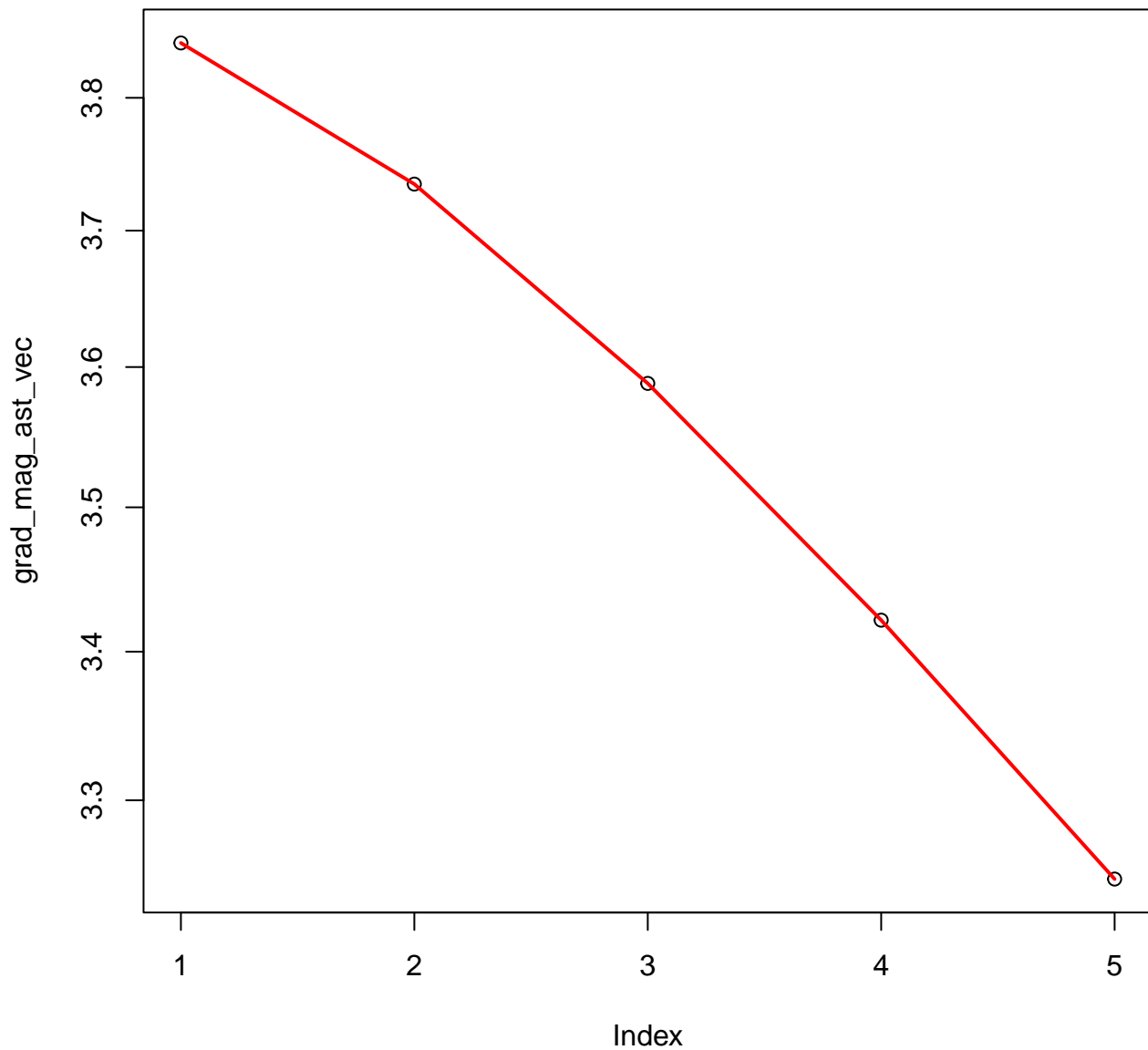
**Gradient Magnitude Evolution (ast)**



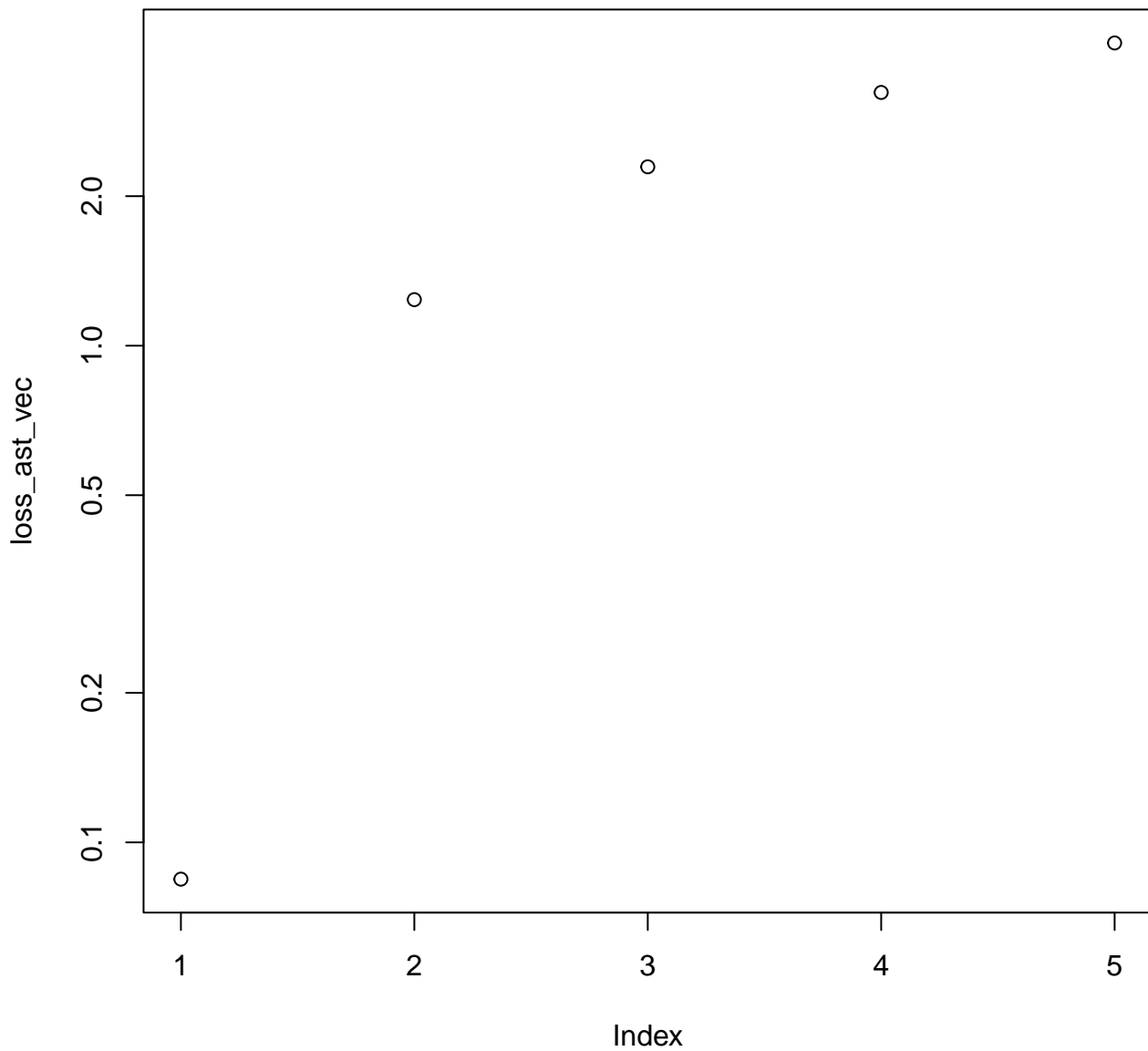
Value (ast)



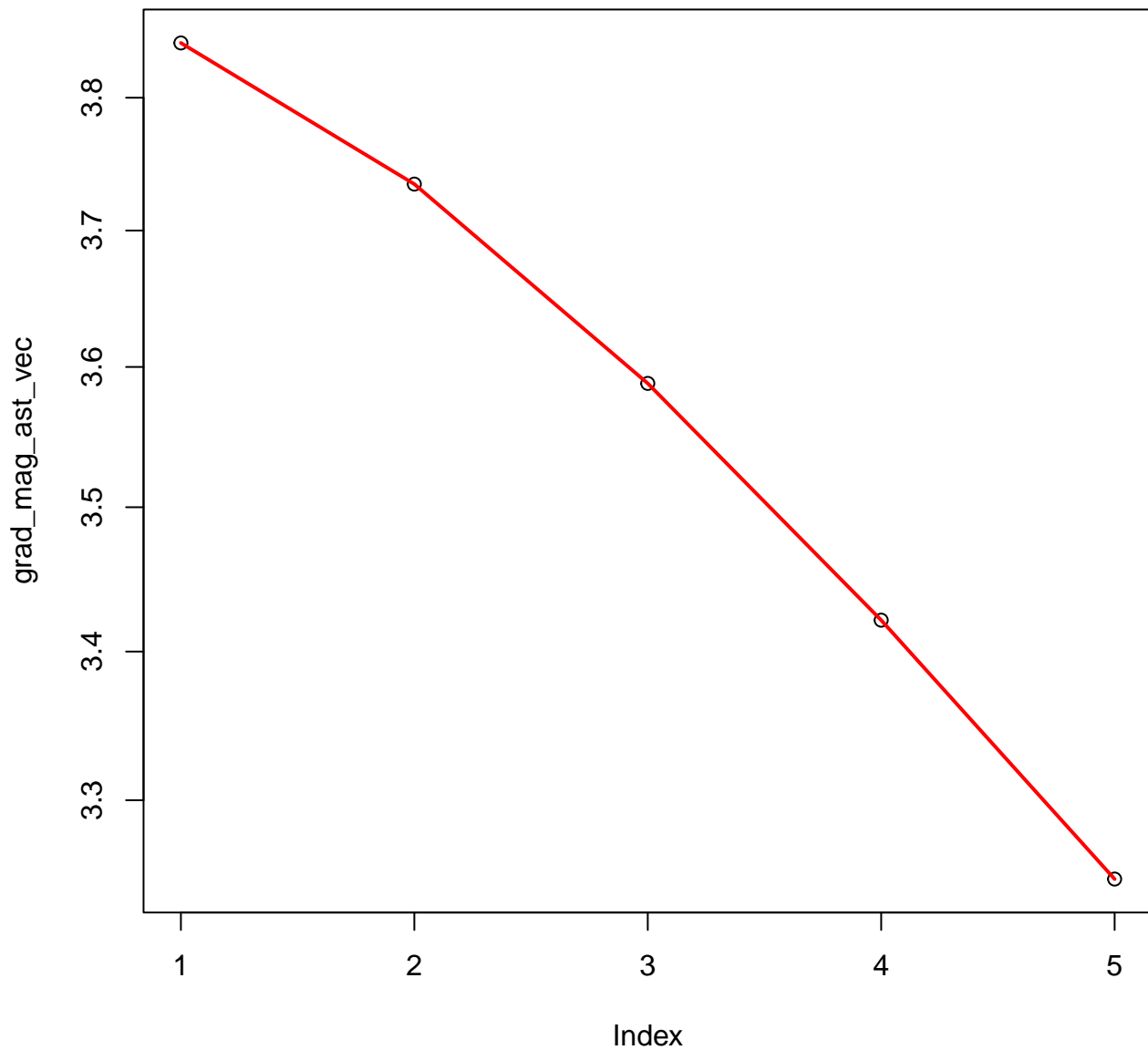
**Gradient Magnitude Evolution (ast)**



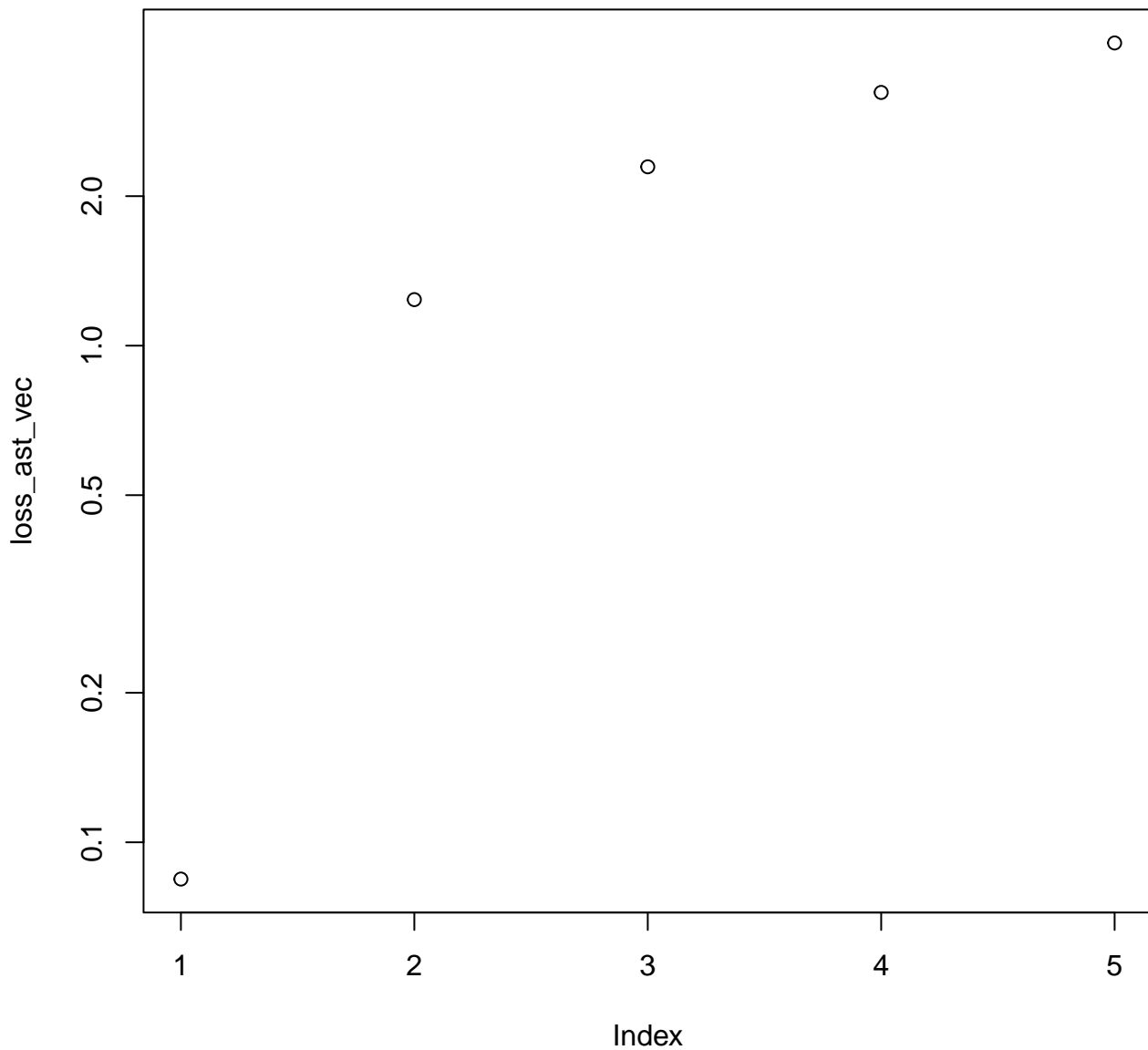
Value (ast)



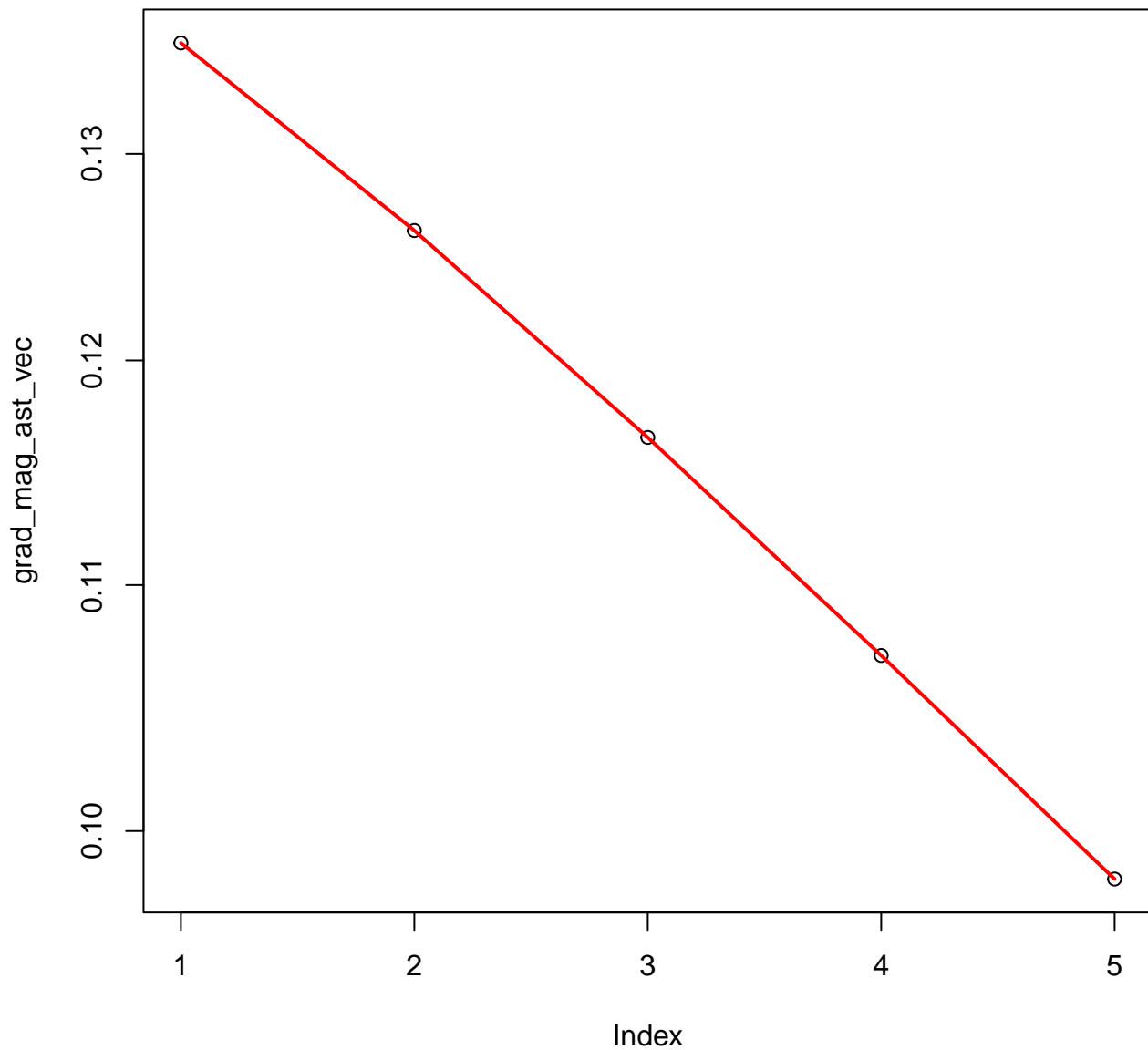
**Gradient Magnitude Evolution (ast)**



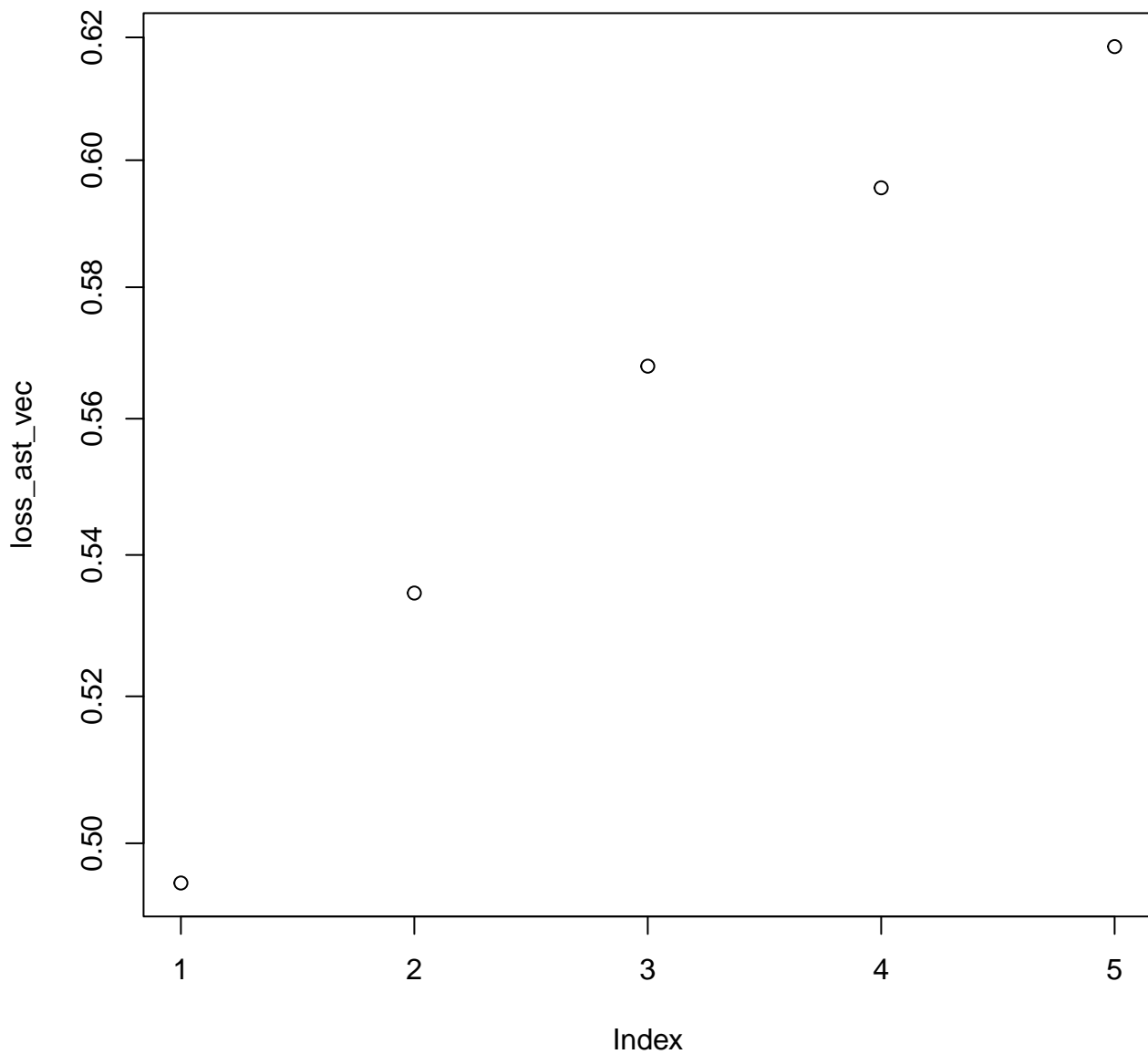
**Value (ast)**



**Gradient Magnitude Evolution (ast)**

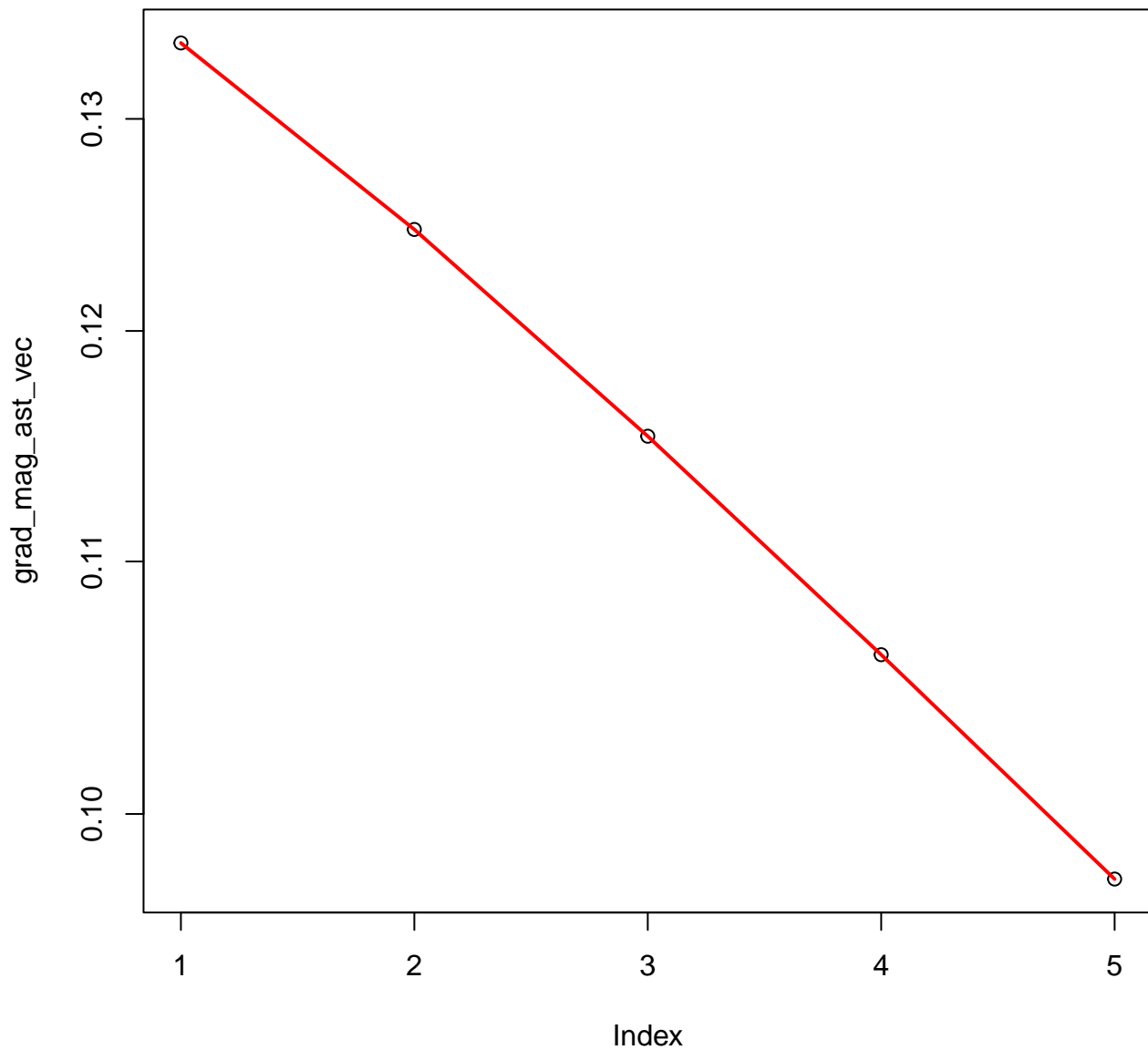


Value (ast)

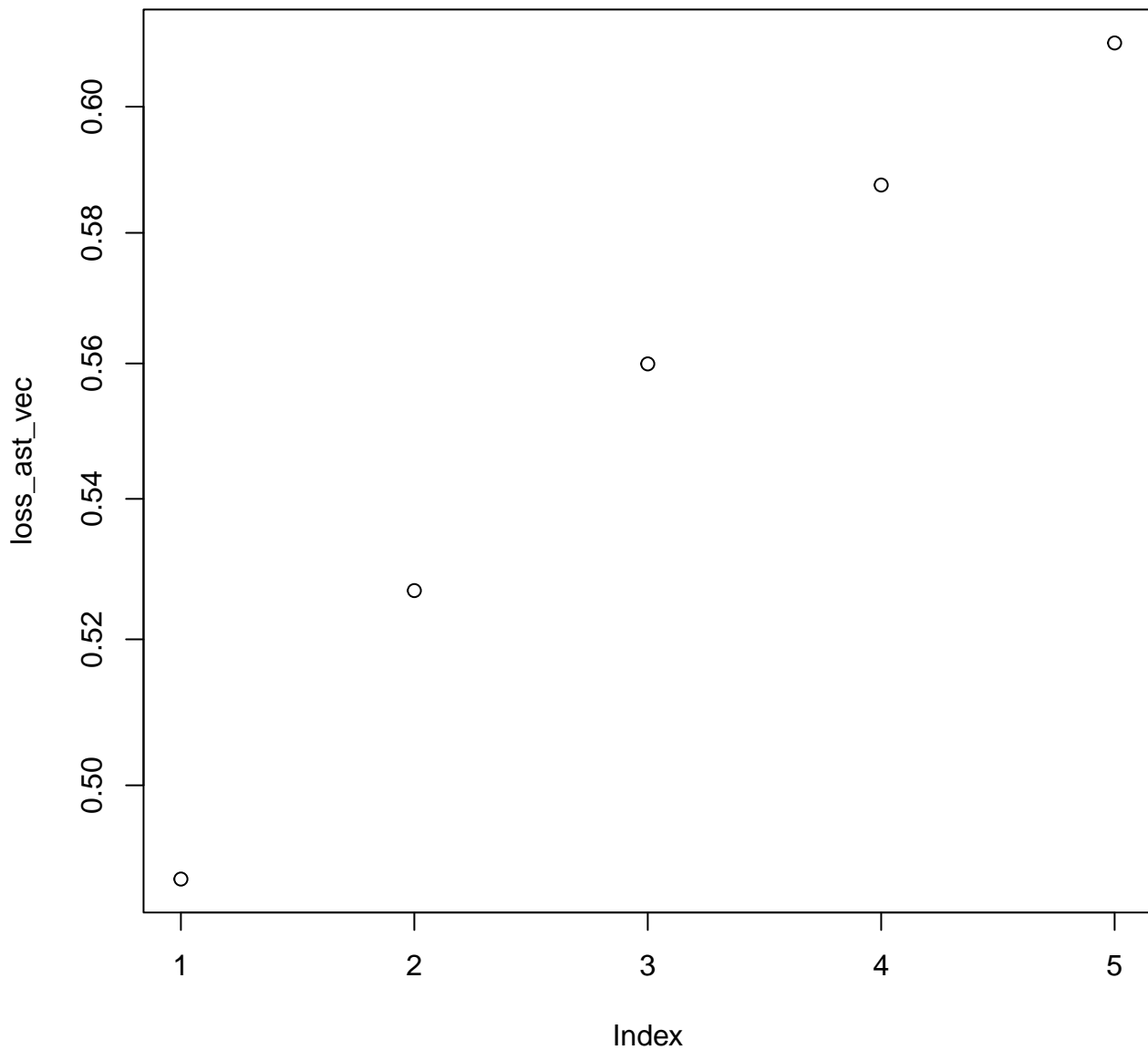




**Gradient Magnitude Evolution (ast)**



**Value (ast)**



**Gradient Magnitude Evolution (ast)**



**Value (ast)**



**Gradient Magnitude Evolution (ast)**



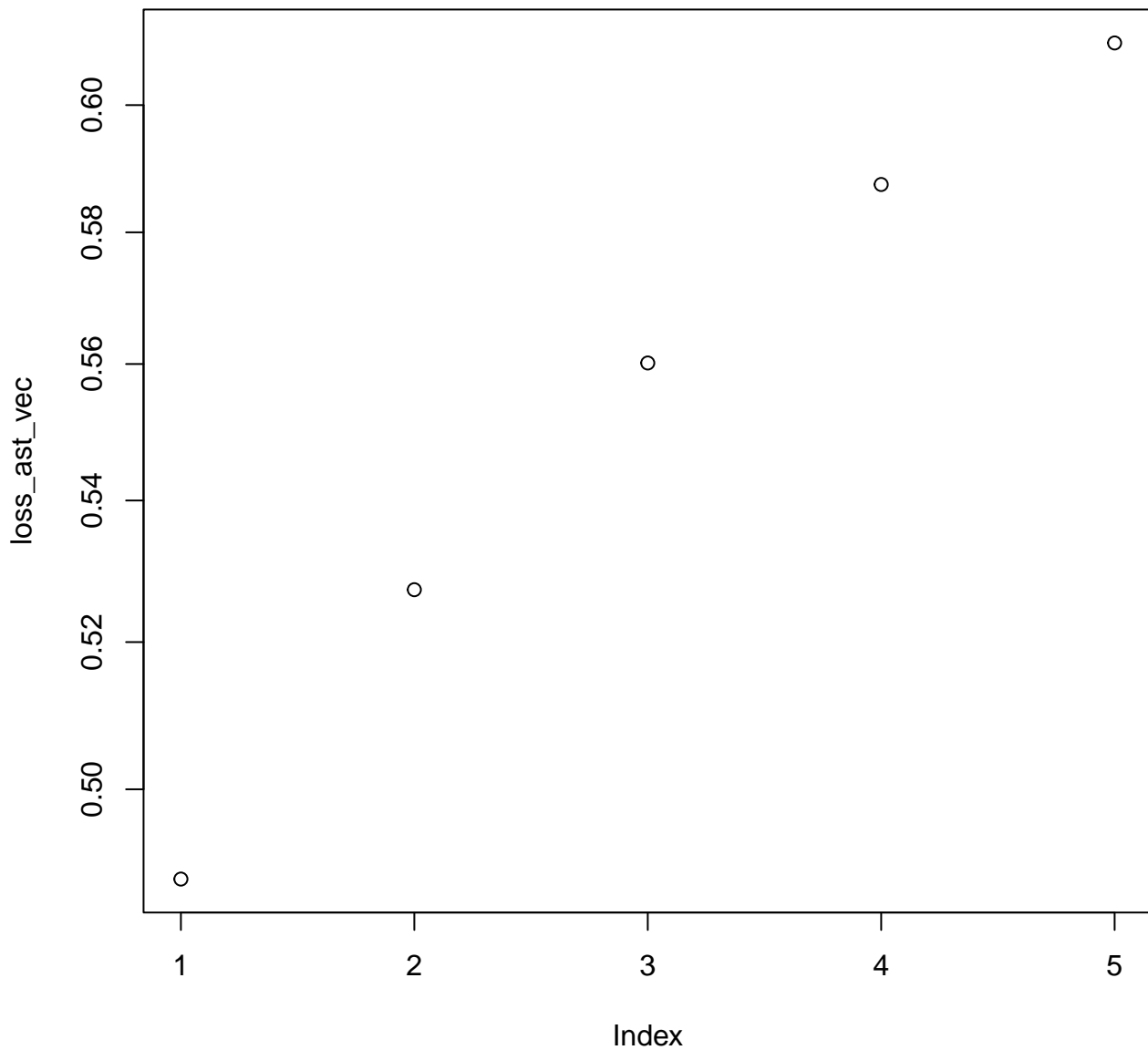
**Value (ast)**



**Gradient Magnitude Evolution (ast)**

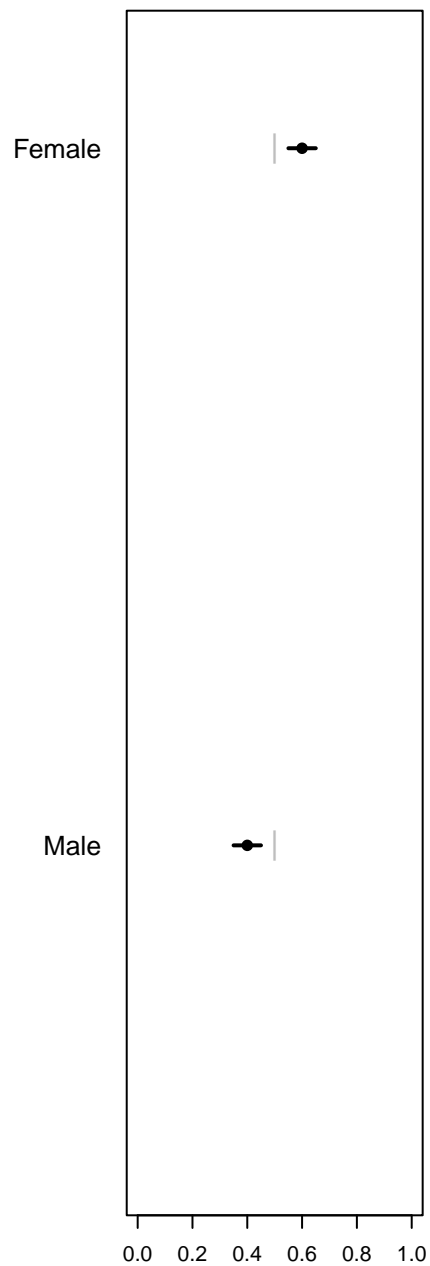


**Value (ast)**

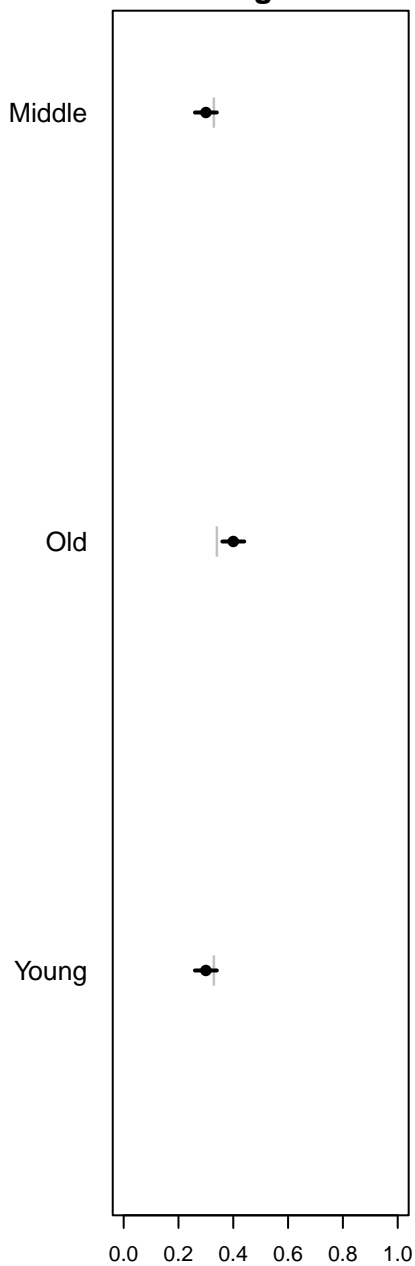




**Gender**



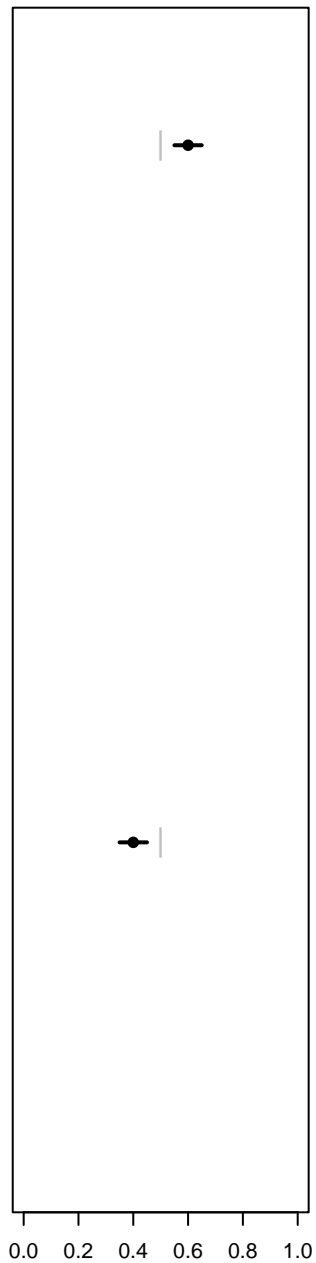
**Age**



**Factor1**

A

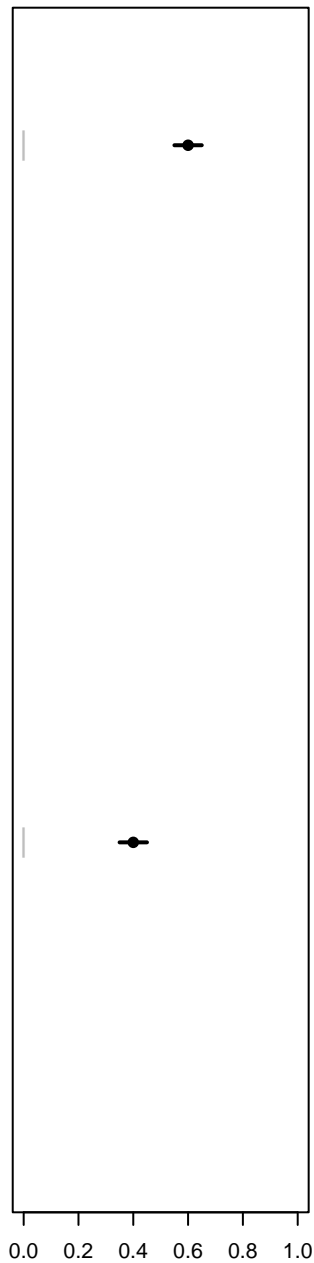
B



**Factor1**

A

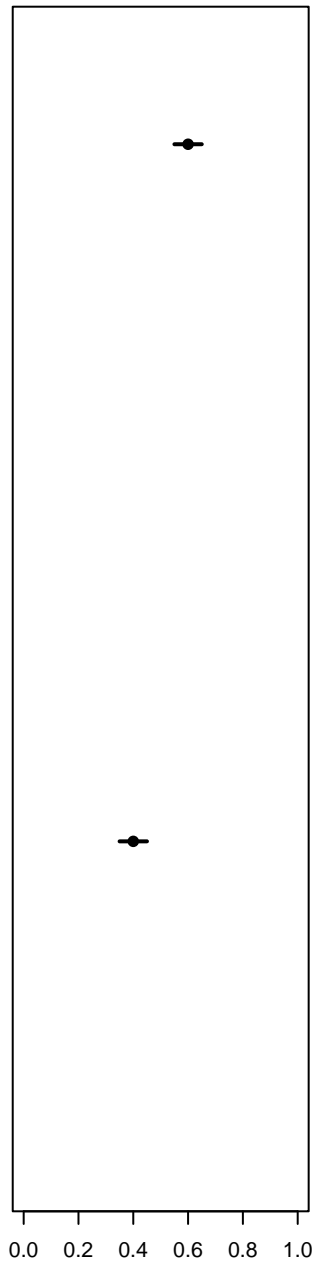
B

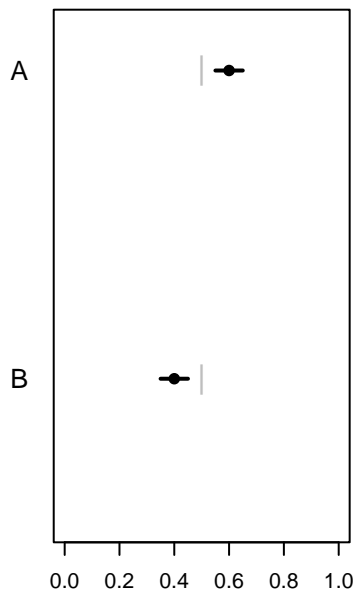
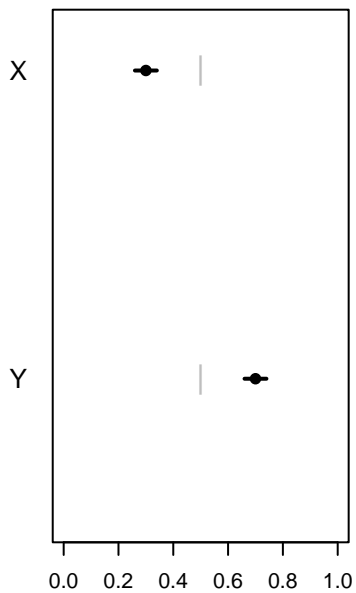
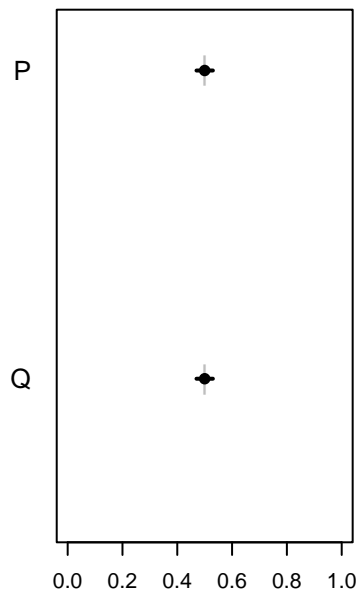
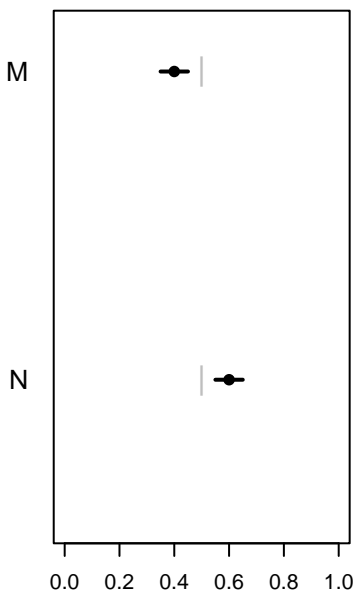


**Factor1**

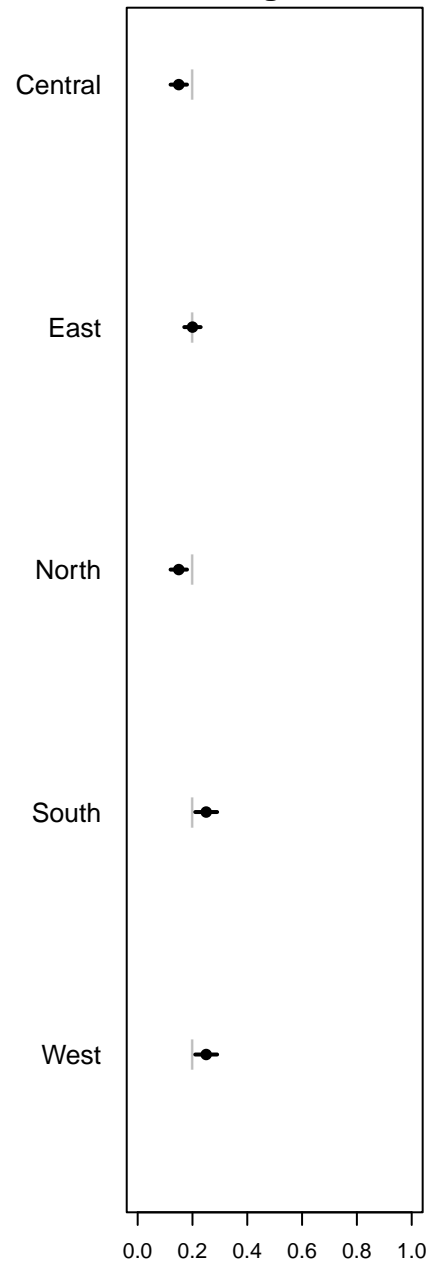
A

B



**Factor1****Factor2****Factor3****Factor4**

## Region



# Gender

Female



Male



0.0 0.2 0.4 0.6 0.8 1.0

# Gender

Female



Male



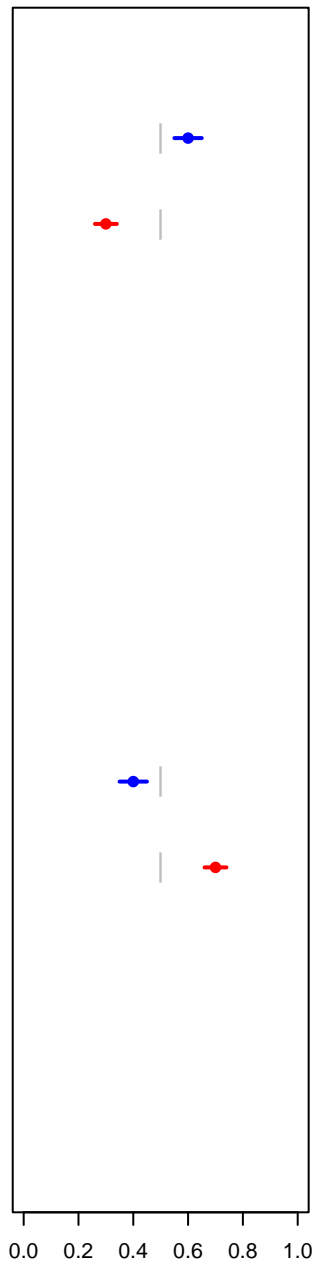
0.0 0.2 0.4 0.6 0.8 1.0



# Gender

Female

Male



# GENDER

female



male



0.0 0.2 0.4 0.6 0.8 1.0

# Gender

Female



Male



0.0 0.2 0.4 0.6 0.8 1.0