

y

initial: $y = 4$

iteration 1: $y = 2$

iteration 2: $y = 0$

iteration 3: $y = -1$

iteration 4: $y = -3$

local minimum: $y = -6$

$x^2=1$

$x^2=2$

$x^2=3$

$x^2=4$

$x^2=5$

$x^1=5$

$x^1=4$

$x^1=3$

$x^1=2$

$x^1=1$

6

4

2

0

-2

-4

-6