

Gradient Descent

Lowest

Blopo > Give rate of change |
Derivative >> 51 ope
- Derivative >> -ve slope which
means the rate of clowest
descent.

(a:b) C) (xpression a:=a+1 C) assignment

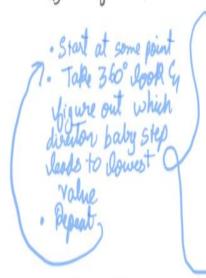
3-D diagram

ex: 16(X34) - here unlike slope the function doesn't change in one direction like the above pig. We use gradient instead of 310pe (a vector that points in e duration of greatest rate of increase of the function

VK = (34-334)

- If the gradient vector at (2,3) is abla f=(4,5) , it means:
  - Moving in the direction where x increases by 4 units and y increases by 5 units will
    make you climb the hill the fastest.

Y:=2- N D J(D) | Goodient descent ofor



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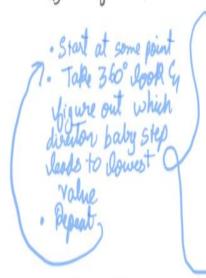
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