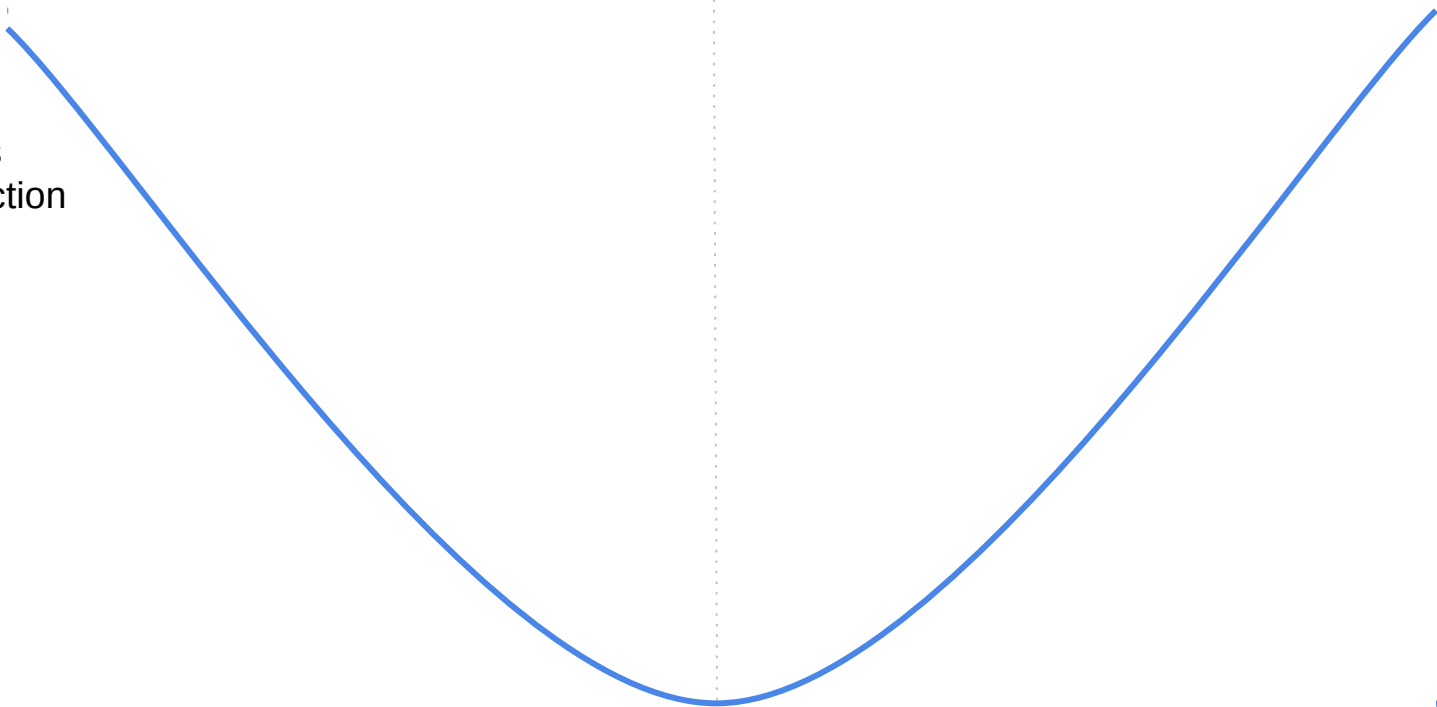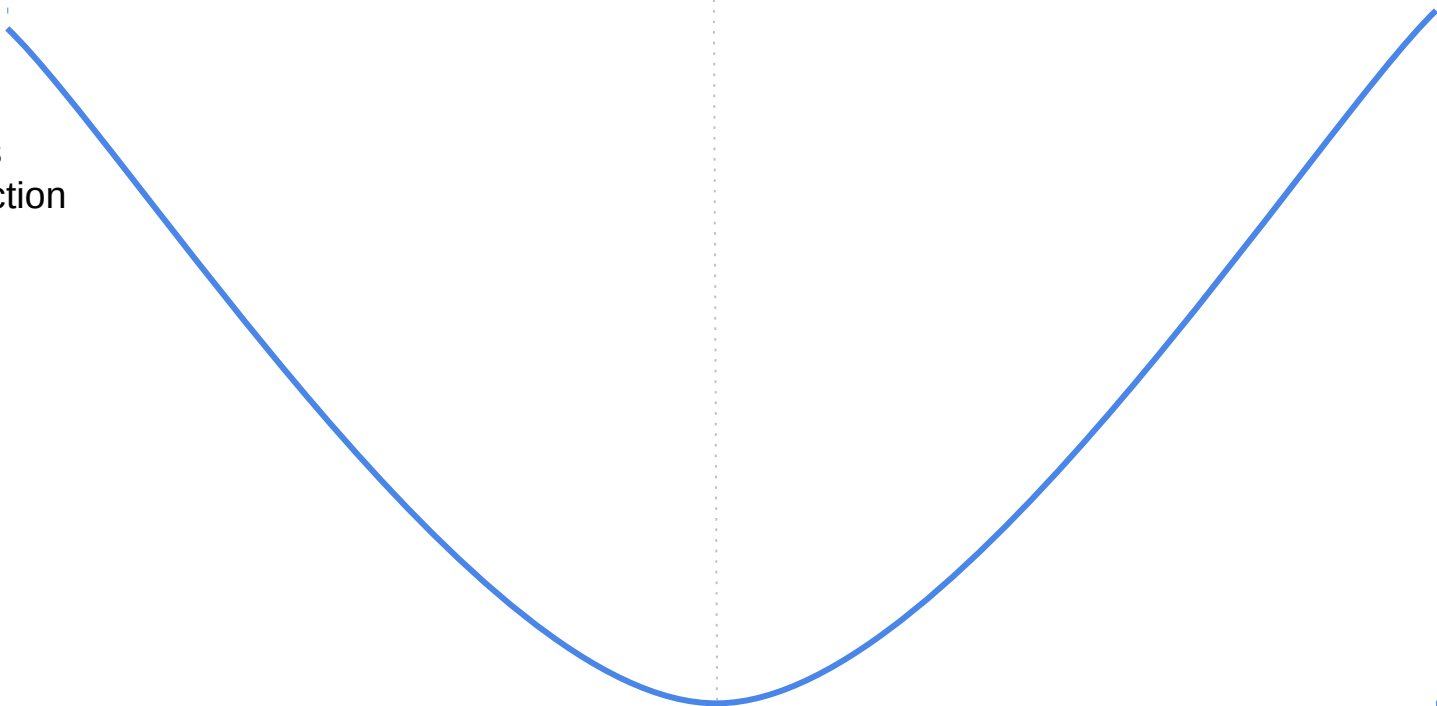# Minimizing loss...

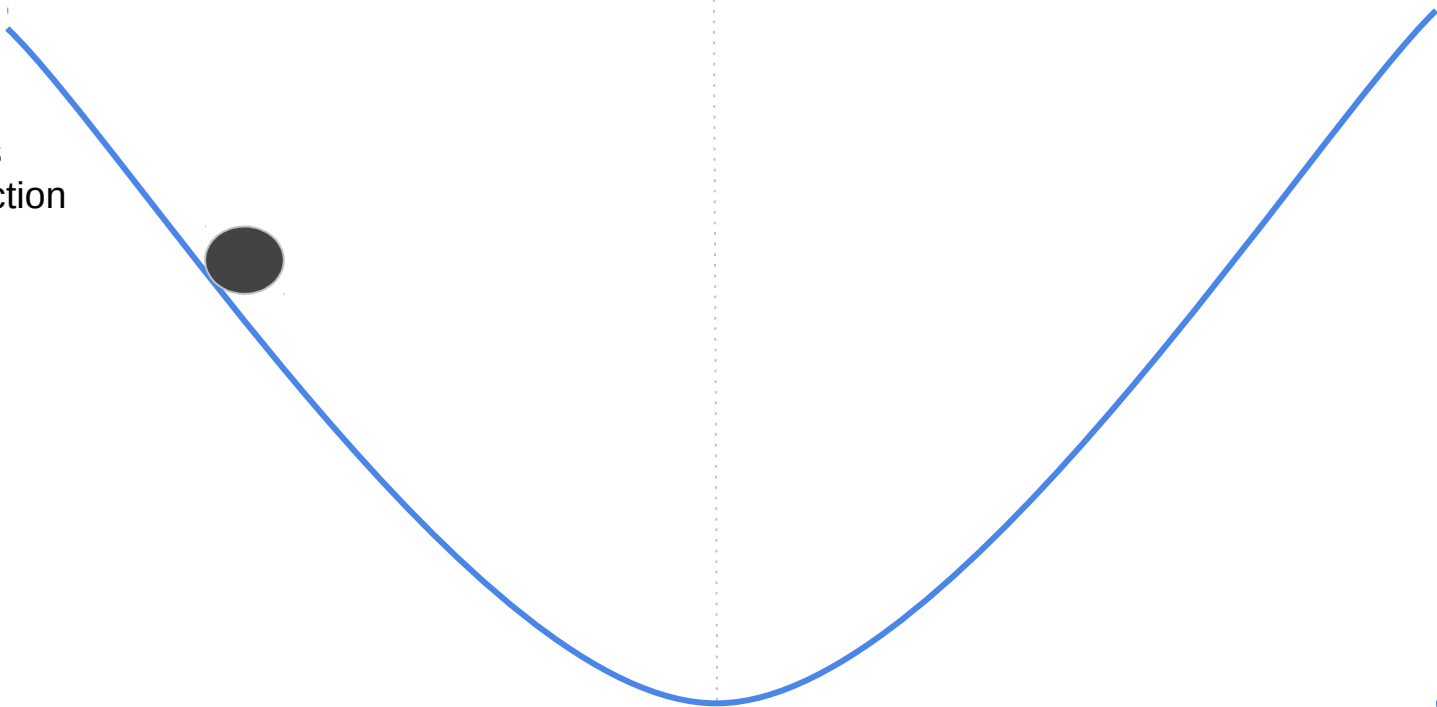## Moving down the curve...

Laurence Moroney, Google

Loss
Function
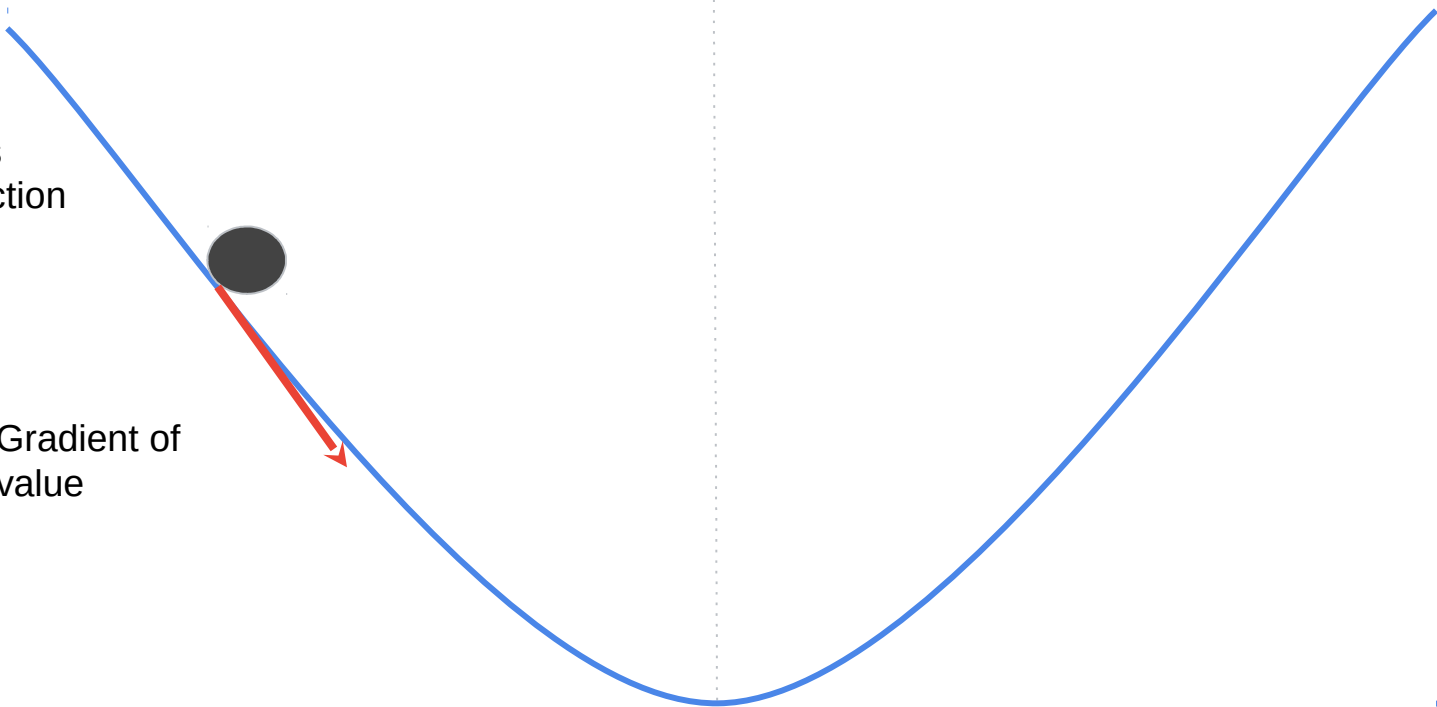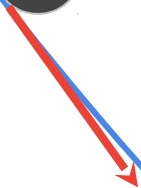
Loss
Function

Minimum of
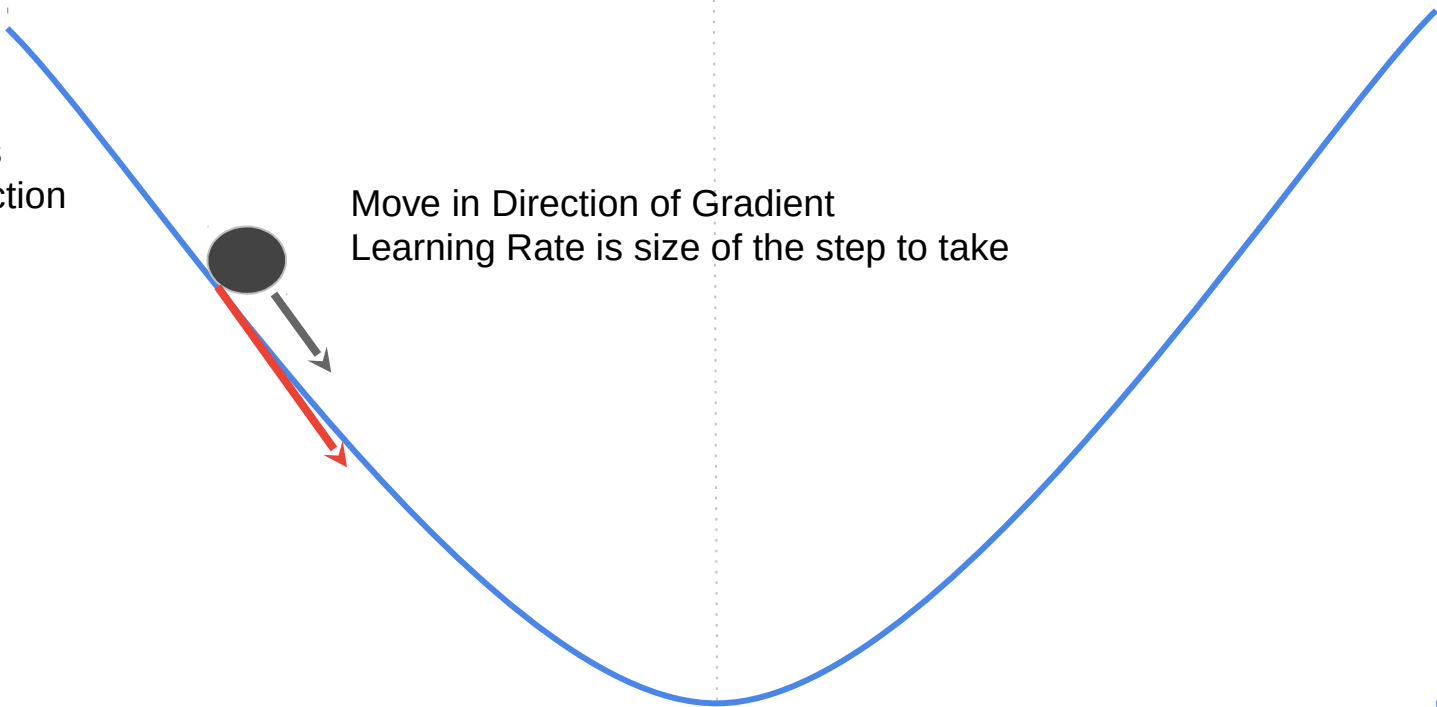Loss Function

Loss
Function

Loss
Function

Gradient of
value

Loss
Function

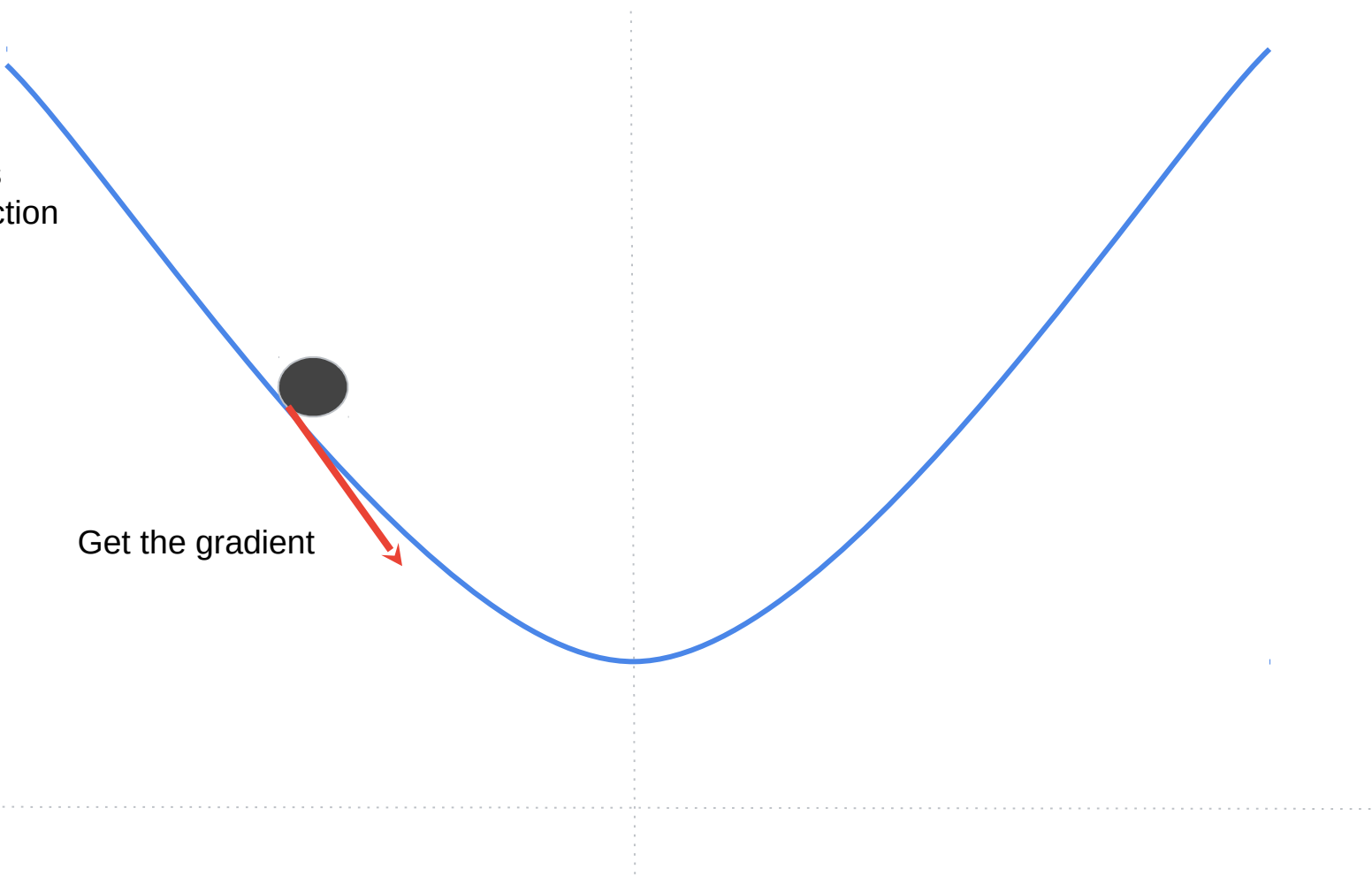Move in Direction of Gradient
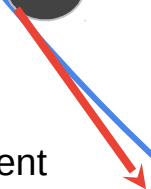Learning Rate is size of the step to take

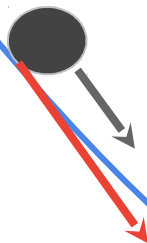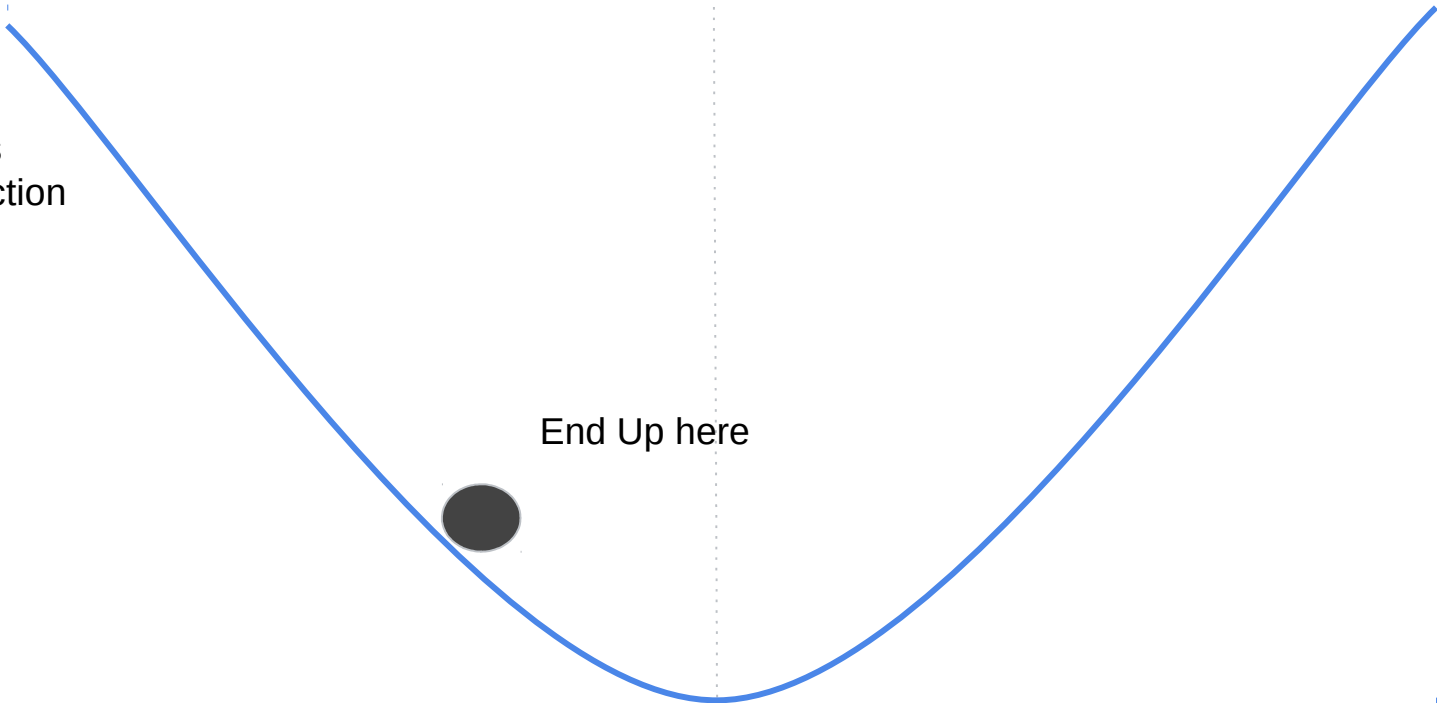Loss Function

End up here
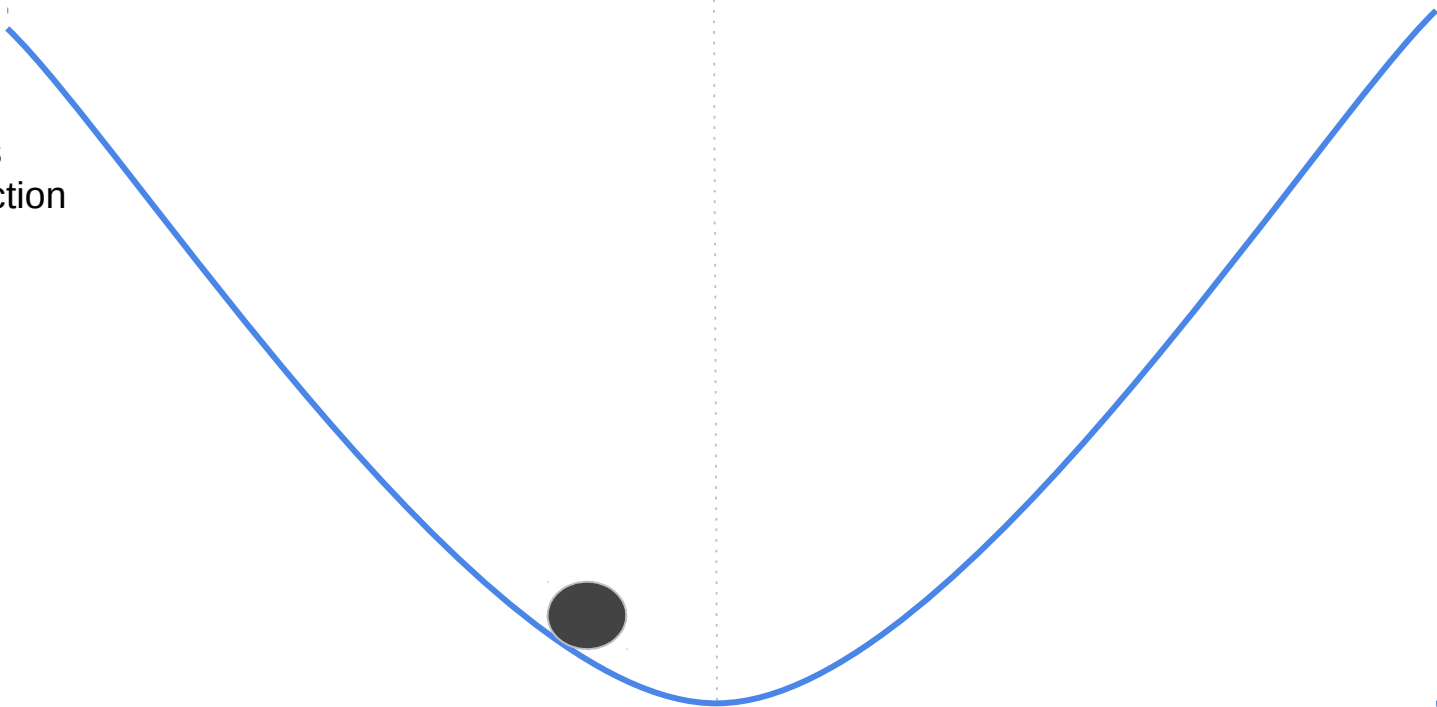
Loss
Function
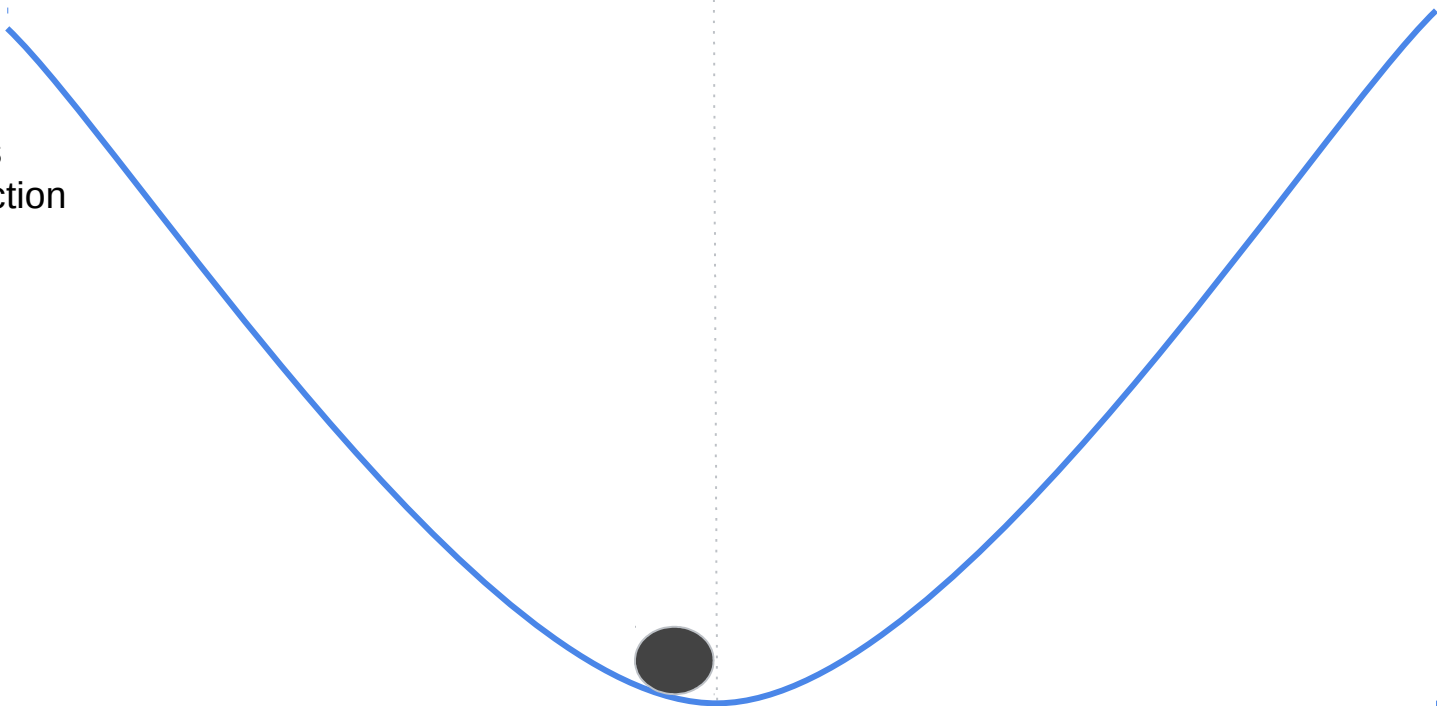
Get the gradient
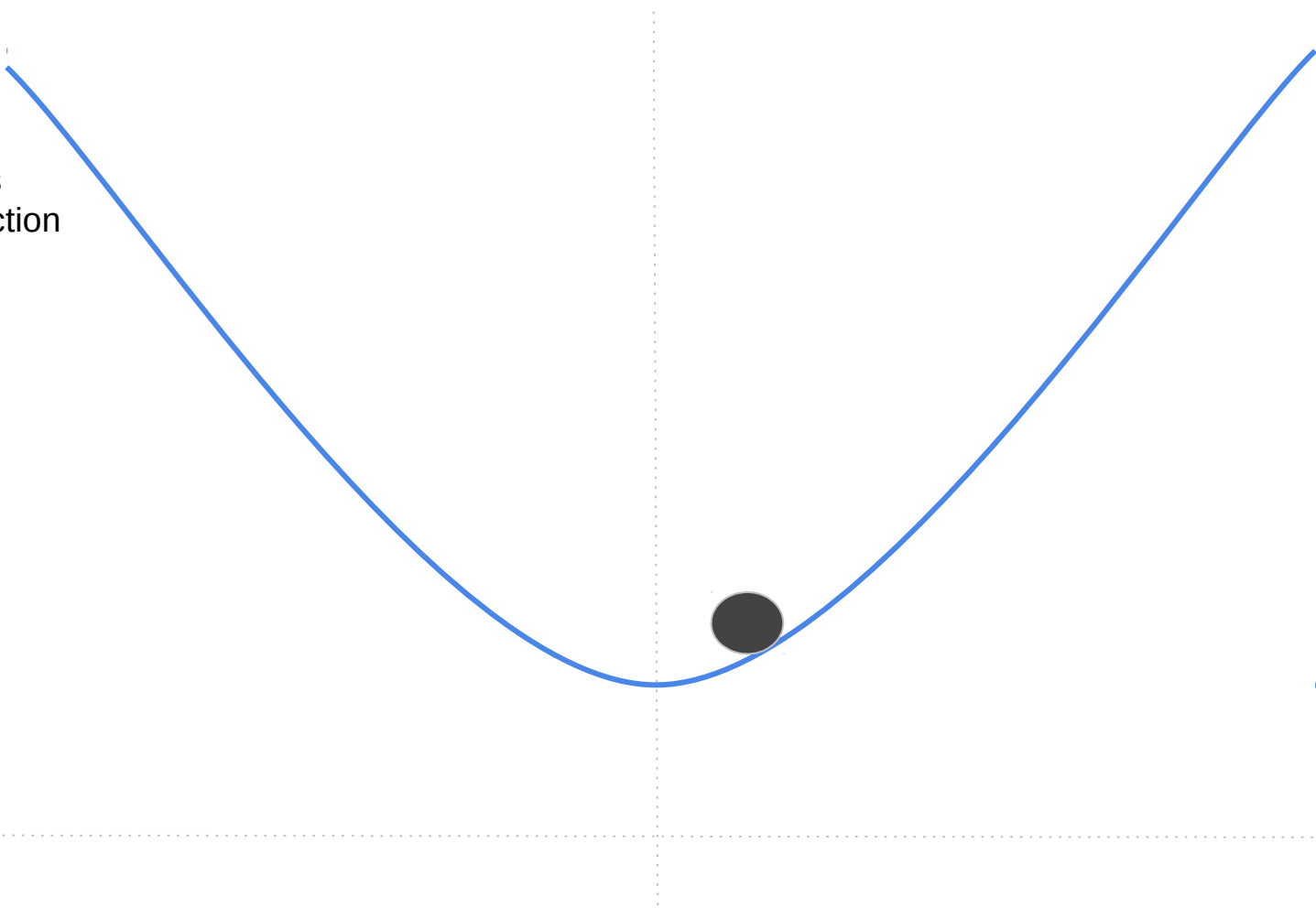
Loss
Function

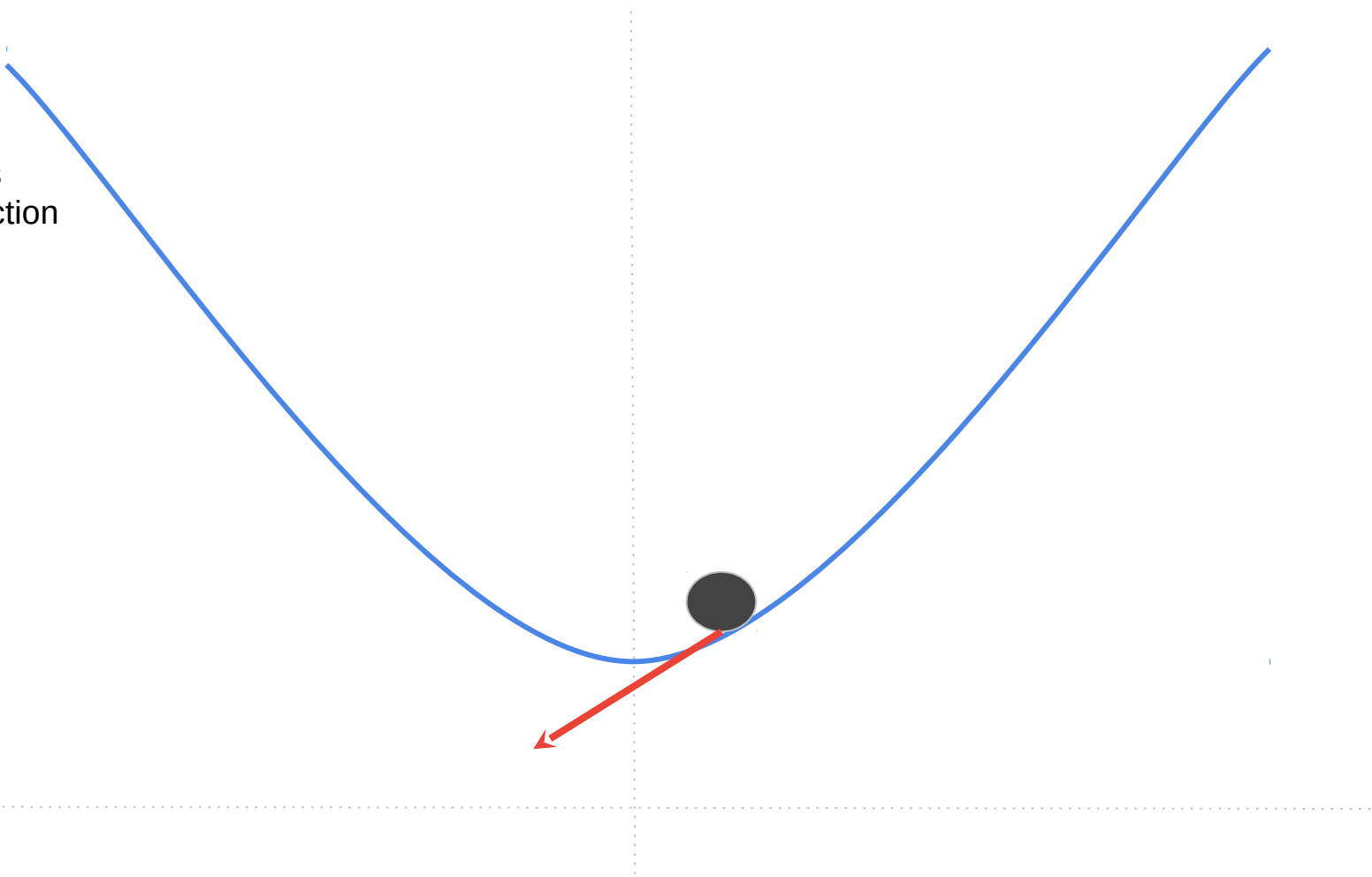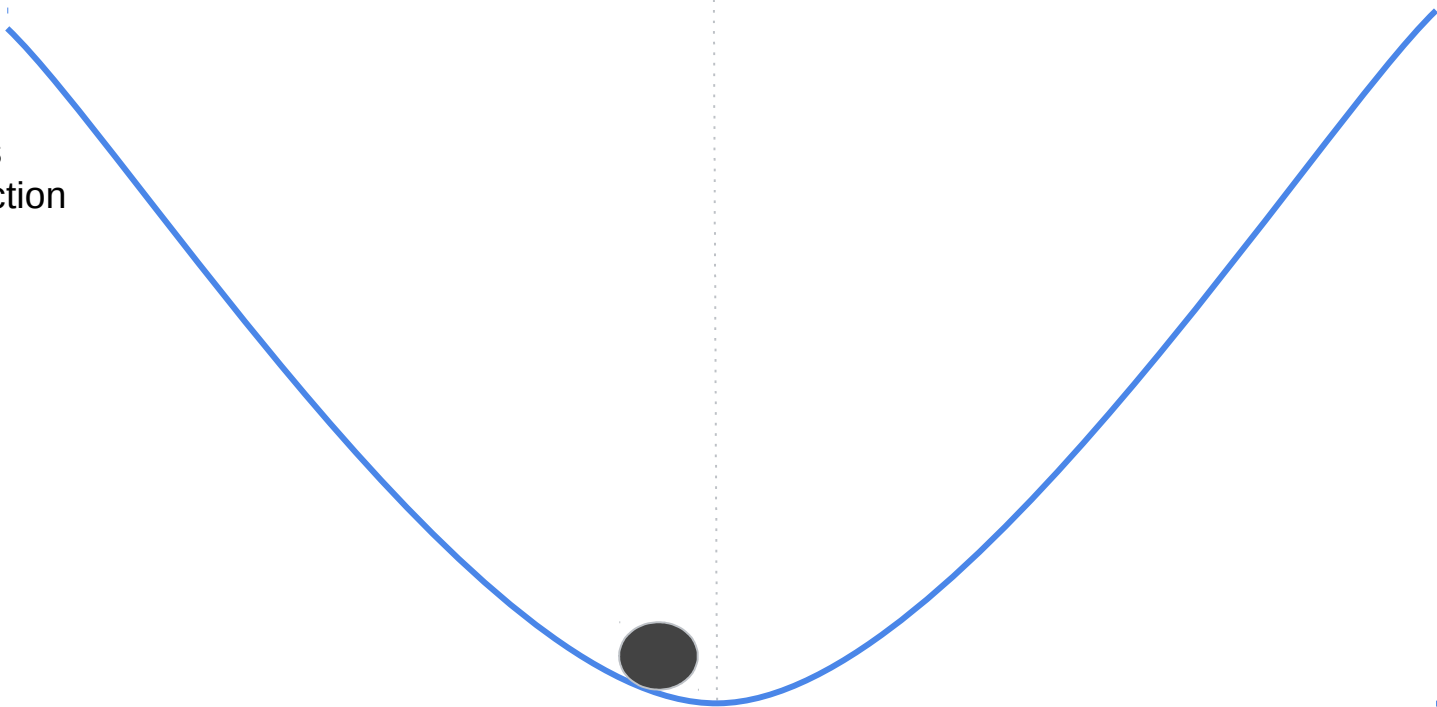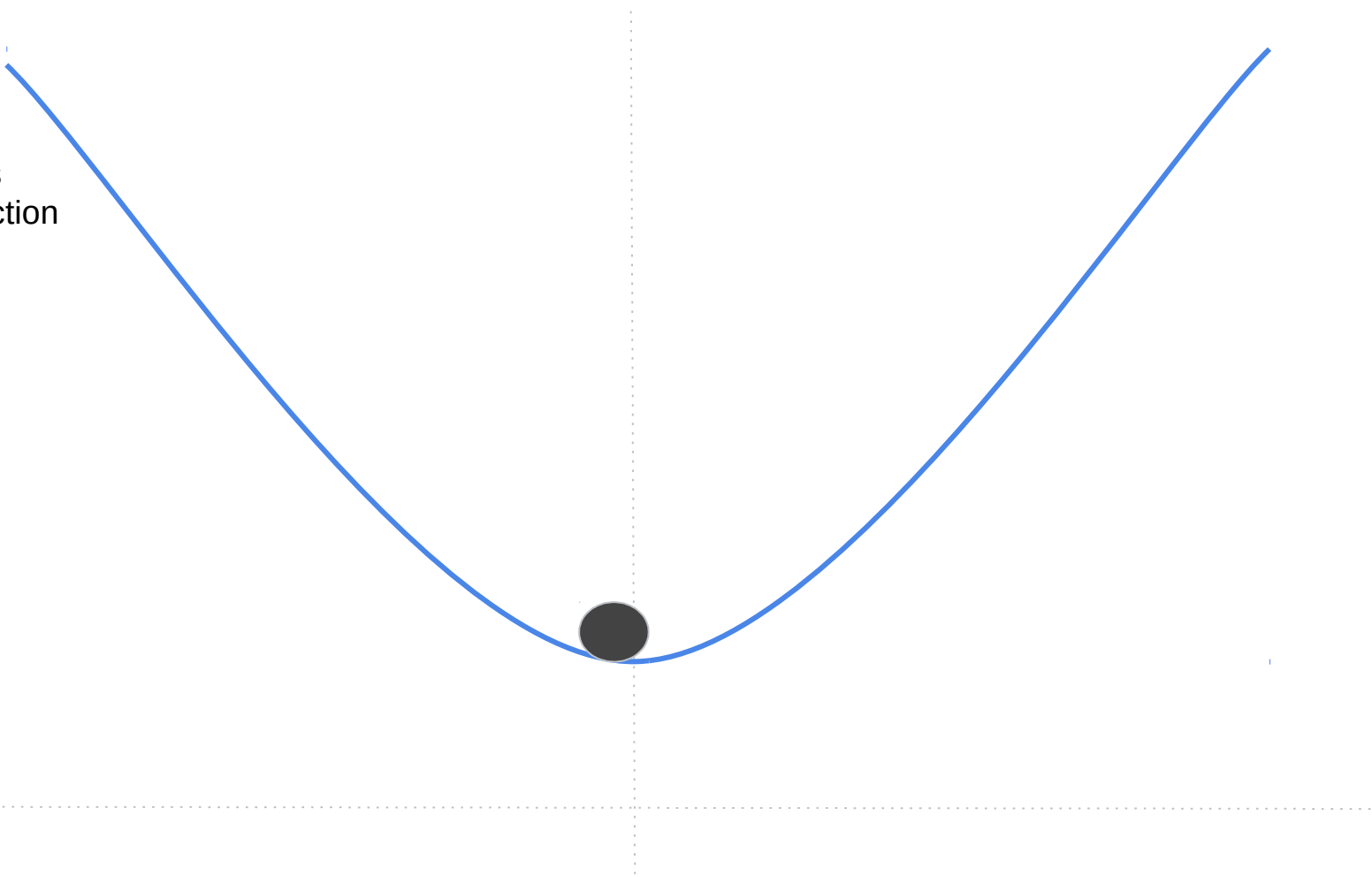Move in Direction of Gradient

Loss
Function

End Up here

Loss
Function

Loss
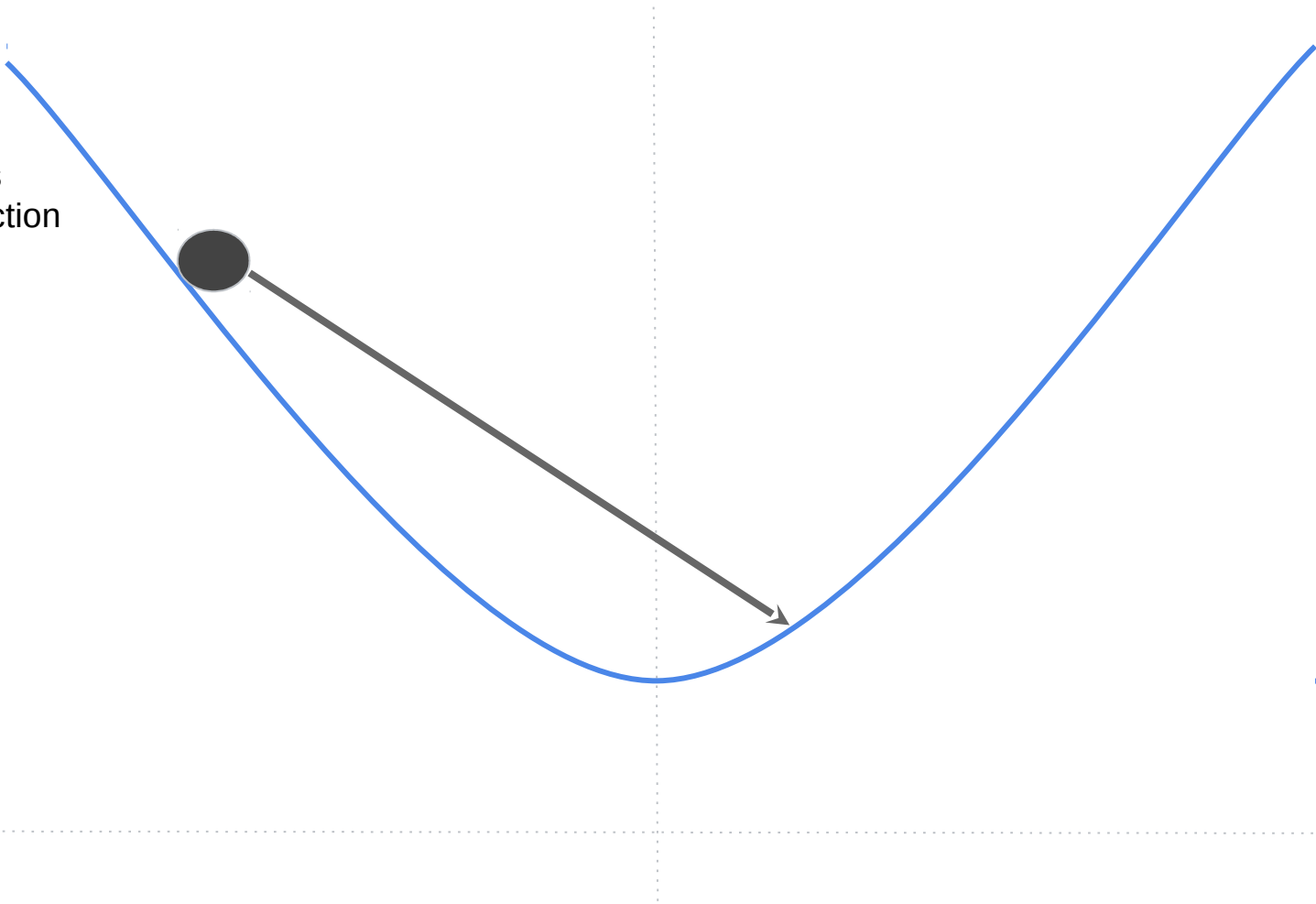Function

Loss
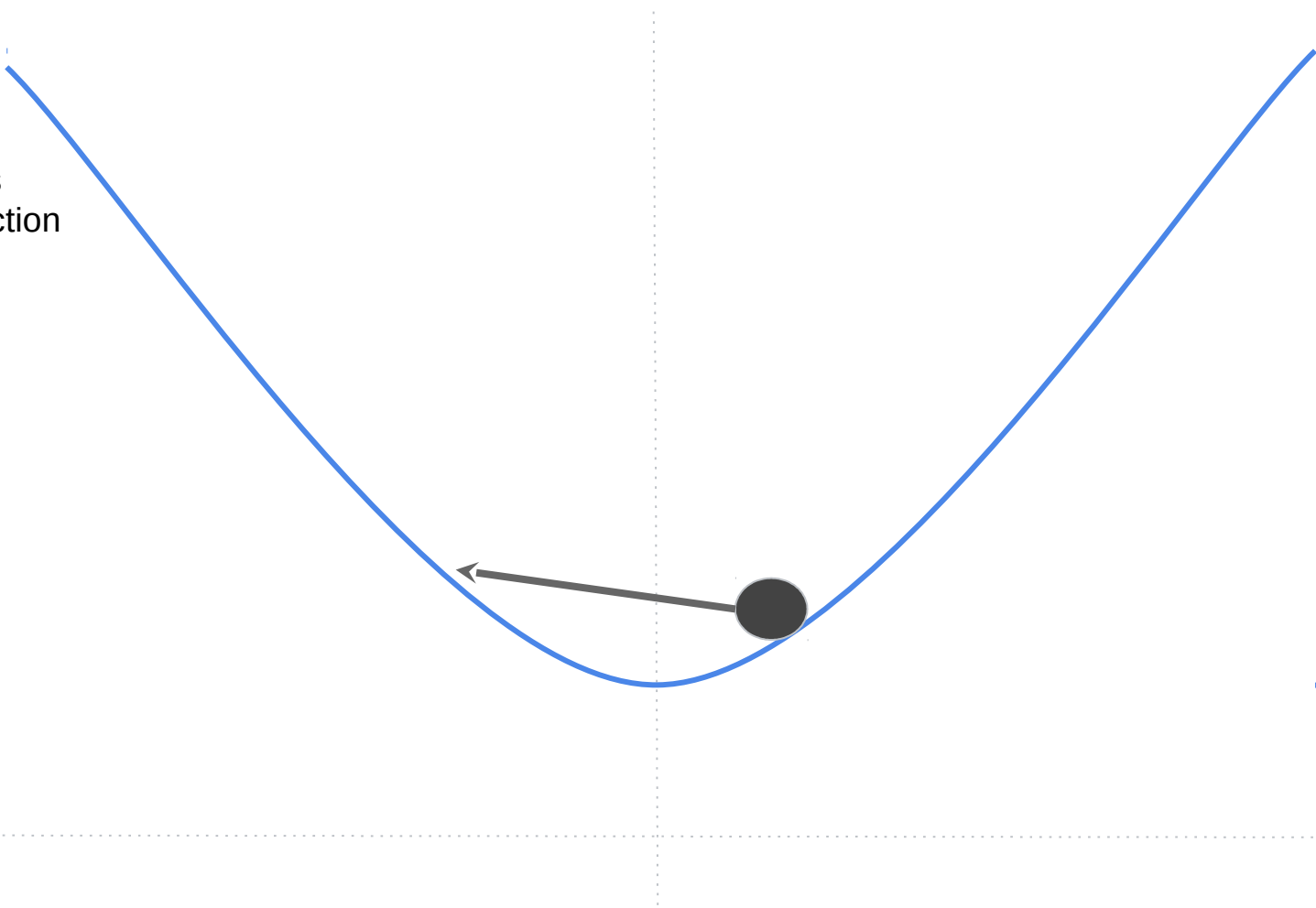Function

Loss
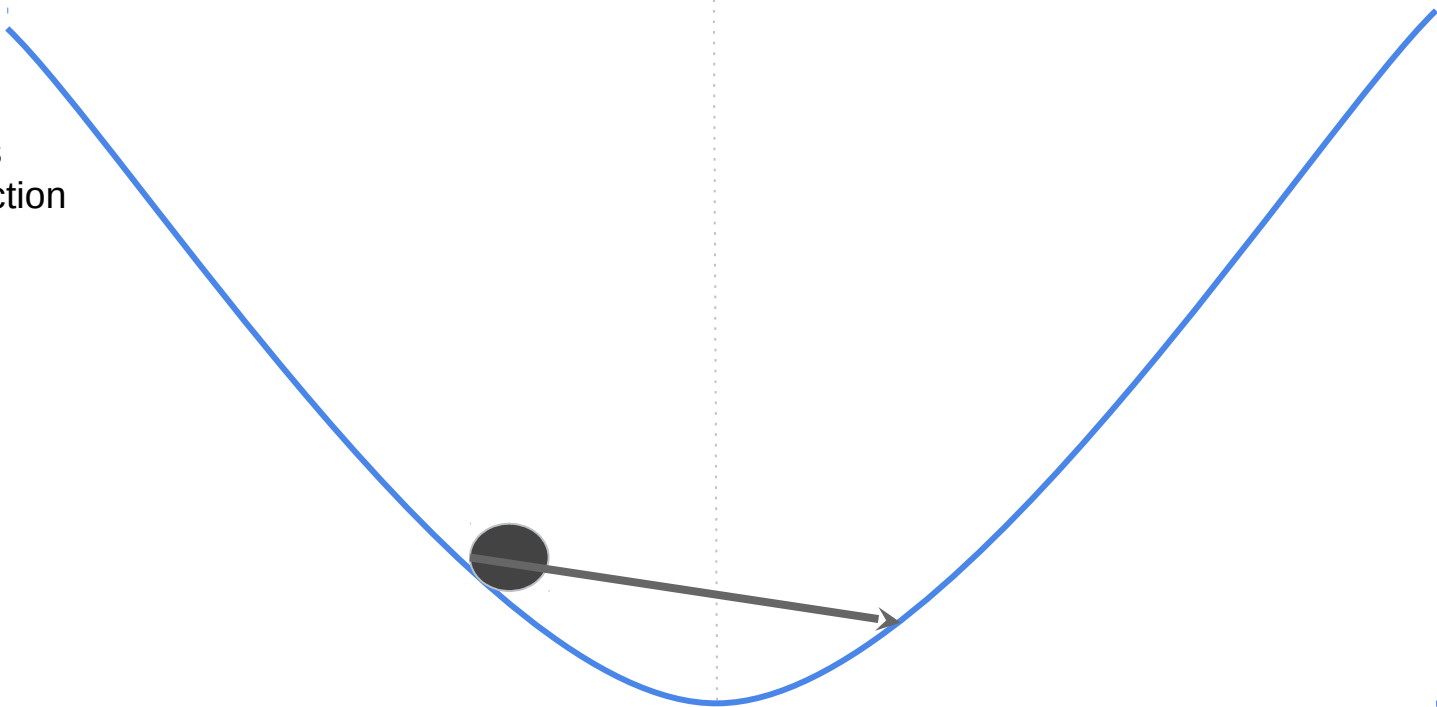Function

Loss
Function

Loss Function

Loss
Function

Loss
Function

Loss
Function

Loss
Function

Move in Direction of Gradient

Loss
Function

Move in Direction of Gradient

Loss
Function

Move in Direction of Gradient

Loss
Function

Move in Direction of Gradient

Loss
Function

Move in Direction of Gradient

Your turn!