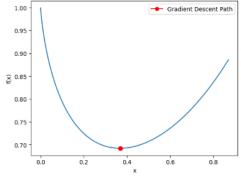
```
import malphilih popied as pit direct import prime impunges to oline activant to understand inputs
import many as by

der gradied_concect(, or, imensing_rate, builtal, goint); Emprime gradient descent function to lake to the function, derivative, imensing rate(step size at each iteration, opticities) and initial public(depends
x_concer= (laintal_goint)) as easy convolutes are initialized
x_concer= (laintal_goint) as easy princises to pregive a long for 200 iterations
gradient = (gradient)

for 1 is range(100). Set or princises to program a long for 200 iterations
gradient = (gradient)

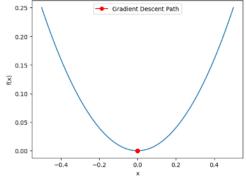
many = x_concer(x_concer(a))

x_concer(x_concer(a))
x_concer(a),
x_concer(a
```



## (0.368, 0.692)

```
import surjability split as pit office (sport splice impages to allow software to understand import sport surplements) and the post importancy as up of gradual post of the po
```



```
import matplotlib.cyplot as plt #First import python images to allow software to understand inputs
import many as my

as much proction used)

### The process of the proces
```

```
(0.287, -3.682)

Import autiplottib.psylot as plt #First import python Languages to allow software to understand inputs

Ge ↑ ↓ A P 

def gradient_descent(f, of, learning_rate, initial_point): #Orfice gradient descent function to take in the function, derivative, learning rate(step size at each iteration, optimizing algorithm), and initial point(depends as the function used)

x_cores = [initial_point] #X and y coordinates are initialized

x_cores = [initial_point] #X and y coordinates are initialized

x_cores = [initial_point]

for i is range(labe): #SE my function to preform a loop for 100 iterations

gradient - office_cored[-1]

update = -learning_rate = 'gradient

new, x = x_cored[-1] + update

#X initin there cooling lapsets, T allowed python to create the gradient descent of the x coordinate and update it for the next x coordinate.

#X_cores, spaped(nex_x)

y_cores, spaped(nex_x)

x_locats_apped(nex_x)

y_cores, spaped(nex_x)

y_cores, spaped(nex_
```