Gradient Descent is an iterative optimization algorithm used to find the local minimum of a differentiable function.

$$n_1 = 5 - 0.1 \times 10$$

$$= 5 - 1$$
 $n_1 = 4$ 

$$u_1 = 4$$

$$f'(u_1) = 2 \times 4 = 8$$

$$u_2 = 4 - 0.1 \times 8$$

$$= 4 - 0.8$$

$$= 3.2$$

## 31ep 3-12 = 3.2

$$f'(n_2) = 2 \times 3.2 = 6.4$$