$\rightarrow x^4 + 3x^3 + 10$

Iteration - 1

Let $x = 2$ and $n = 0.01$

$$4x^3 + 6x = 4(2)^3 + 6(2)$$
$$= 32 + 12$$
$$= 44$$

As gradient is not near to zero, calculating step length.

$$\Delta x = -0.01 * 44$$
$$= -0.44$$

update $x = 2 - 0.44 = 1.56$

Iteration - 2

$$= 4(1.5)^3 + 6(1.5)$$
$$= 13.5 + 9 = 22.5$$

$$\Delta x = -0.01 * 22.5 = -0.225$$

update $x = 1.5 - 0.225 = 1.275$