△ B(+1) = (N+r) ( 8 ≤ B(+) + (+8) & f(6)

$$M = 0$$

$$M_{1} = (1 - n_{1}) \sqrt{L(B(1))}$$

$$M_{2} = n_{1}(1 - n_{1}) \sqrt{L(B(1))} + (1 - n_{1}) \sqrt{L(B(2))}$$

$$M_{3} = (n_{1}^{2}(1 - n_{1})) \sqrt{L(B(1))} + (n_{1}(1 - n_{1})) \sqrt{L(B(2))}$$

$$+ (1 - n_{1}) \sqrt{L(B(3))}$$

$$C(-n_{1})(1 - n_{1}^{2}) = (1 - n_{1}^{2})$$

$$3a + \frac{1}{3}b + \frac{1}{3}c$$

Optimization ⇒ GD = lst order optimization, T step size learning race. zig-zay Newton's method. -7 2nd order

$$M_{t} = \frac{1}{t} \sum_{i=1}^{t} \nabla L(B(i))$$

$$G_{t} = \frac{1}{t} \sum_{i=1}^{t} (\nabla L(B(i)))^{2K} \text{ element wise}$$

$$M_{t} = \frac{1}{t} \sum_{i=1}^{t} (\nabla L(B(i)))^{2K} \text{ element wise}$$

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