Asignment 21

$$f(x,y) = x^2 + y^2 + 10$$
1) $x = -1$, $y = 1$, $y = 0.01$, epochs = 2

2) $(tr = 3)$

$$3t = 2x = 2(-1) = -2$$

$$3t = 2y = 2(1) = 2$$
4) $\Delta x = -1/3t = -(0.01)(-2) = 0.2$

$$\Delta y = -1/3t = -(0.01)(2) = -0.2$$
5) $x = x + \Delta x$, $y = y + \Delta y$

$$= -1 + 0.2$$
, $= 1 + (-0.2)$

$$= -0.6$$
6) $(tr = 1 + 1 = 2)$
1) $(tr = 1 + 1 = 2)$
2) $(tr = 1 + 1 = 2)$
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8) $(tr = 1 + 1 = 2)$
9) $(tr = 1 + 1 = 2)$

5) $n = n + \Delta n$, $y = y + \Delta ny$ = -0.8 + 0.16 = 0.8 + (-0.16). = -0.64 = 0.64 (6) 9tr=2+1=3 7) 1/ (3 > 2) / 8) n=-064, y=064