## Lab3 Post Lab Questions

1. (2 pts ea) For the equation below:

2. (4 pts each) Remember that our calculation of Cnew is only an approximation. What is the correct value of Cnew without any approximations?

What is the percent error between the correct value of Cnew and the approximate value of Cnew computed by the hardware ?

(compute as (Cnew\_correct-Cnew\_approximate)/Cnew\_correct \* 100 %

How large is the absolute error in terms of Least Significant Bits ? (1 LSB = 1/256). Compute as (Cnew\_correct-Cnew\_approximate)/ (1/256).

<sup>3. (5</sup> pts) What is the functionality of the Carry Chain in the Altera Flex 10K FPGA? What is the advantage of using carry chain logic over just using normal LUTs?