PROJECT 1 REPORT

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Answer to Questions from Sec. 1.9

N_M (number of times the Metropolis Algorithm is called by each thread) is **100.**

N_f (number multiplied by ***n*** to acquire desired relative error of 0.02 or less) is **6.**

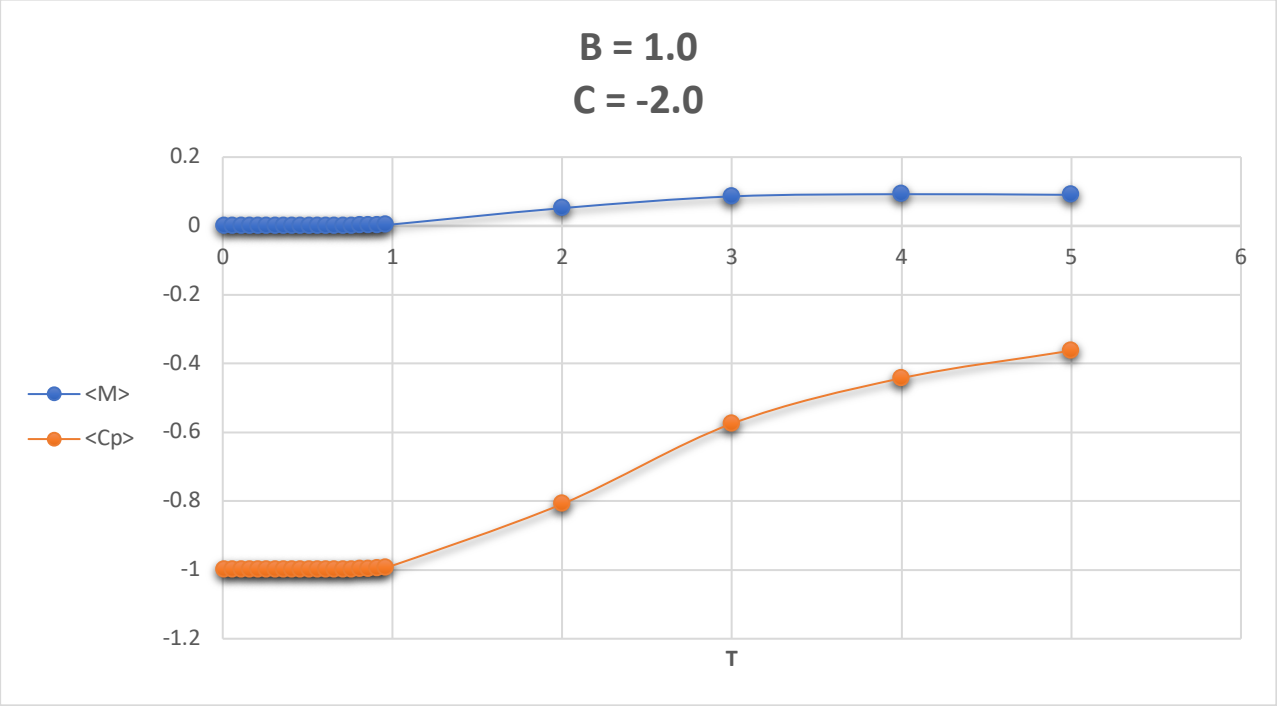
Other variables:

N_T = 1000
n = 100
B = 0
C = -1
T = 1.9

Solved Challenges: #1, #2

Answer 1:

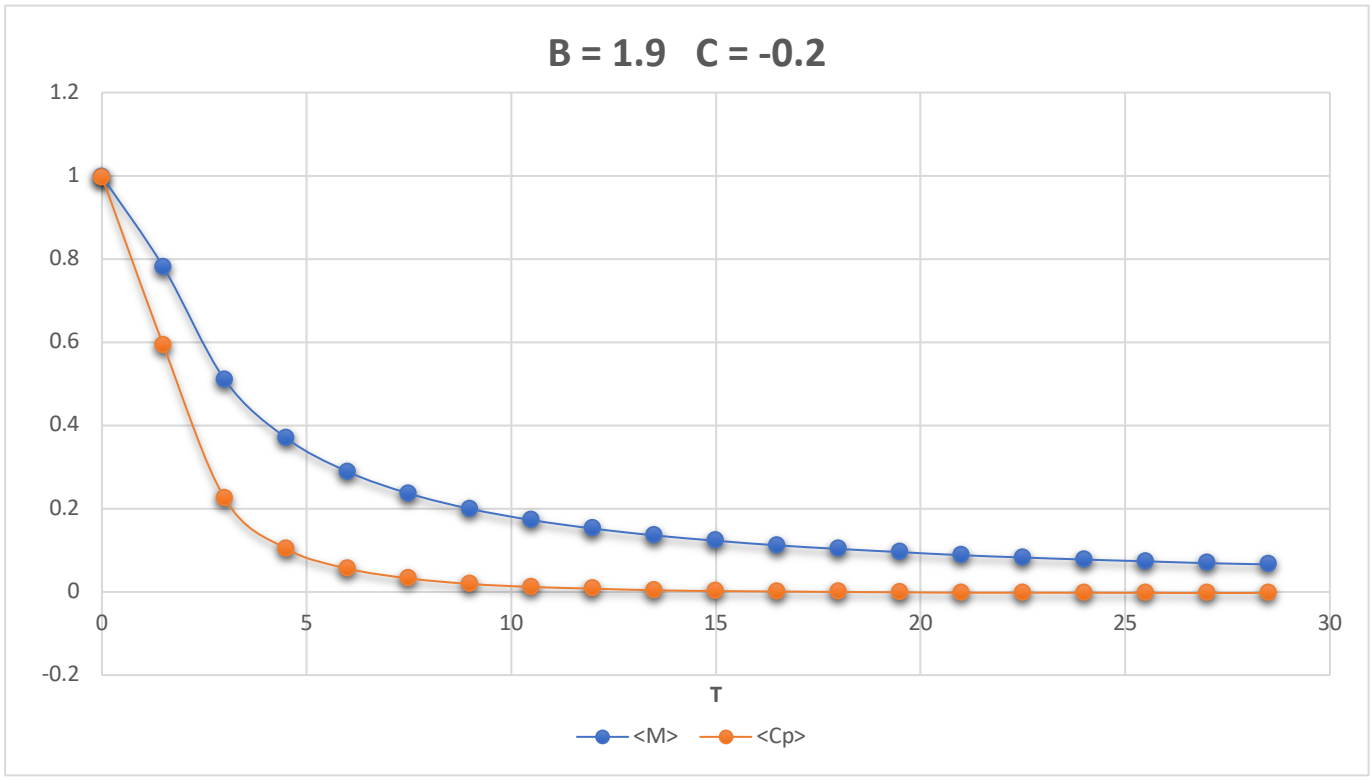
B = 1.0
C = -2.0



(I know you said to plot numbers between 0.01 to 0.91 with intervals of +.05 but for these values of B and C you cannot see the difference)

Answer 2:

B = 0.1
C = 6.38378239159465E-16



(Again, the values of T are exaggerated from 0 to 20 to show that the graph represents the correct data)