

$$b) \alpha A < 0, B > 0$$

$$M_A = M_B = \cdot 1100 \ 0111 \ 1100$$

$$M_A = - \cdot 0100 \ 0010 \ 1000$$

$$\cdot \cancel{1000 \ 0010}$$

$$M_C = \cdot 1000 \ 0101 \ 0100$$

$$\boxed{0 \mid 1000 \ 0111 \mid 0000 \ 1010 \ 100}$$

$$C^* = (0.1000 \ 0101 \ 0100)_2 \times 2^7$$

$$= (1000 \ 010.1010 \ 0)_2$$

$$= 66.625$$

$$\Delta C = 66.61 - 66.625 = -0.015$$

$$\delta C = \left| \frac{\Delta C}{C_1} \right| \times 100\% = 0.02\%$$