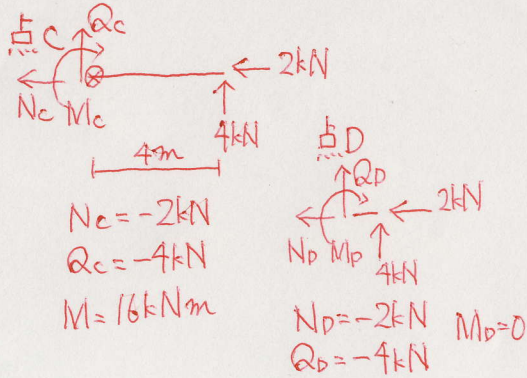
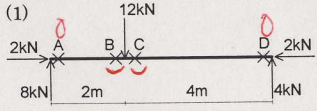
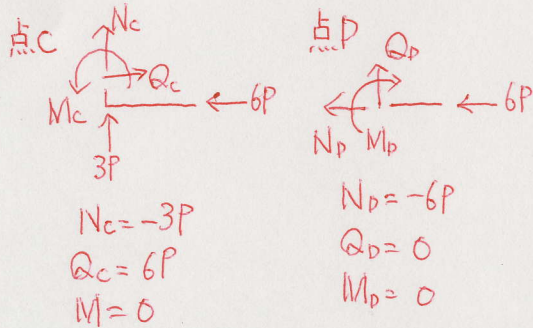
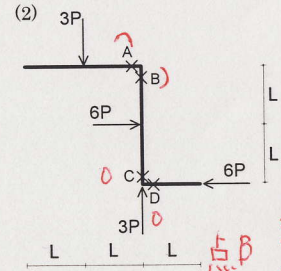


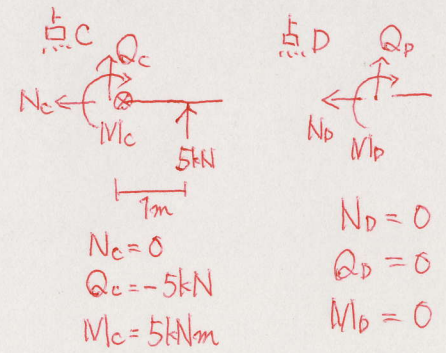
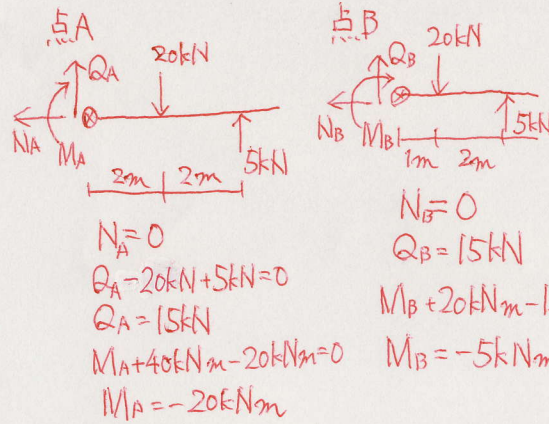
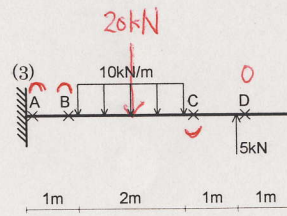
問. 図中×印点での断面力(軸力N、せん断力Q、曲げモーメントM)を求めなさい。
また、曲げモーメントにより部材が伸びる側に“()”を、生じない場合には“0”を描きなさい。



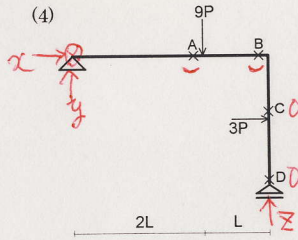
	N	Q	M
A	-2kN	8kN	0
B	-2kN	8kN	16kNm
C	-2kN	-4kN	16kNm
D	-2kN	-4kN	0



	N	Q	M
A	0	-3P	3PL
B	-3P	0	3PL
C	-3P	6P	0
D	-6P	0	0



	N	Q	M
A	0	15kN	20kNm
B	0	15kN	5kNm
C	0	-5kN	5kNm
D	0	0	0

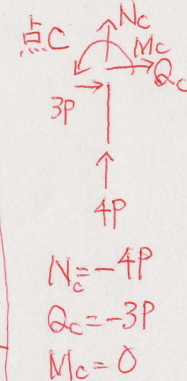


Equilibrium equations for problem (4):

$$\sum X_i = x + 3P = 0 \Rightarrow x = -3P$$

$$\sum Y_i = y + z - 9P = 0 \Rightarrow y = 5P$$

$$\sum M_i = 18PL - 6PL - 3zL = 0 \Rightarrow z = 4P$$



	N	Q	M
A	3P	5P	10PL
B	3P	-4P	6PL
C	-4P	-3P	0
D	-4P	0	0