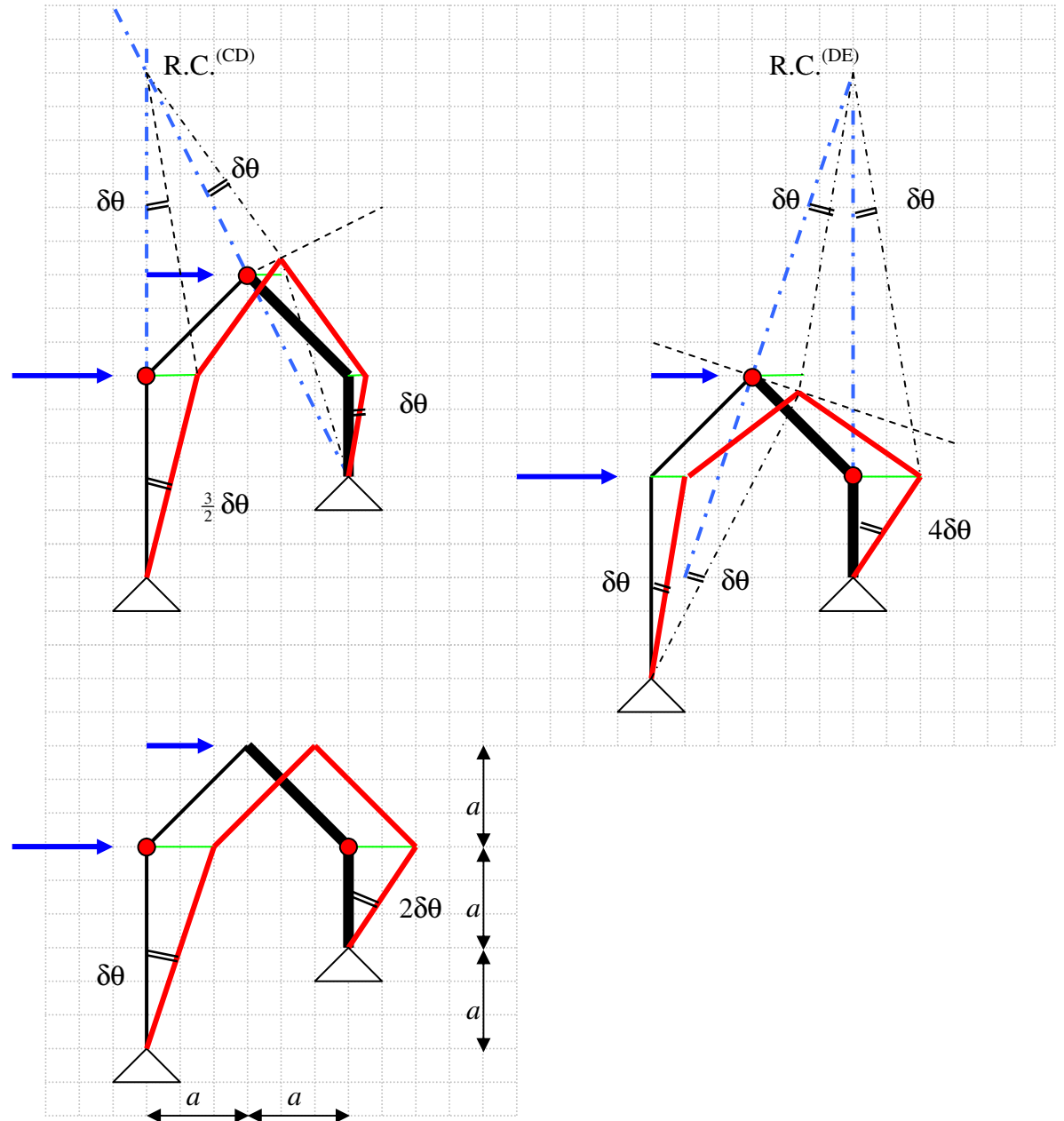
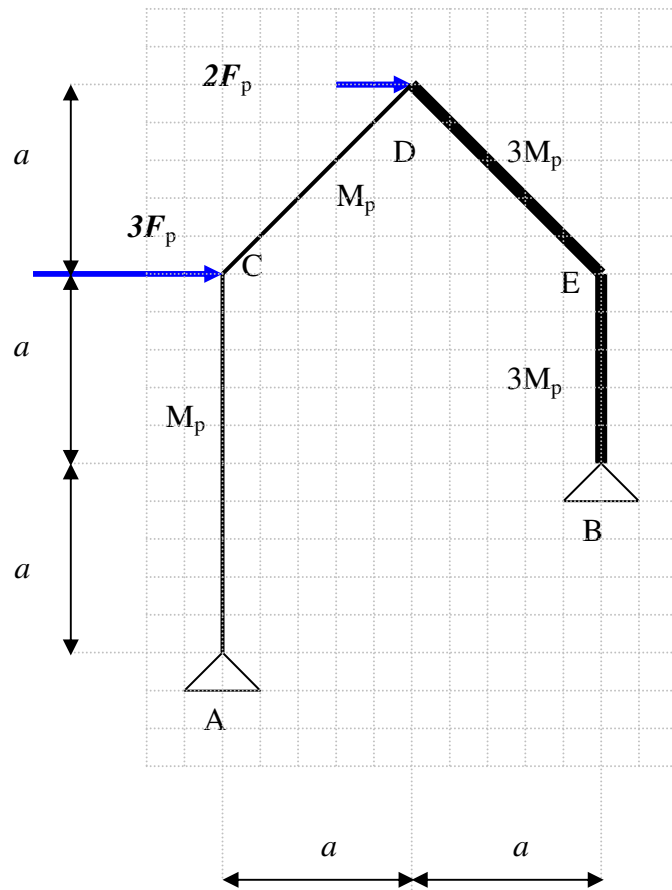
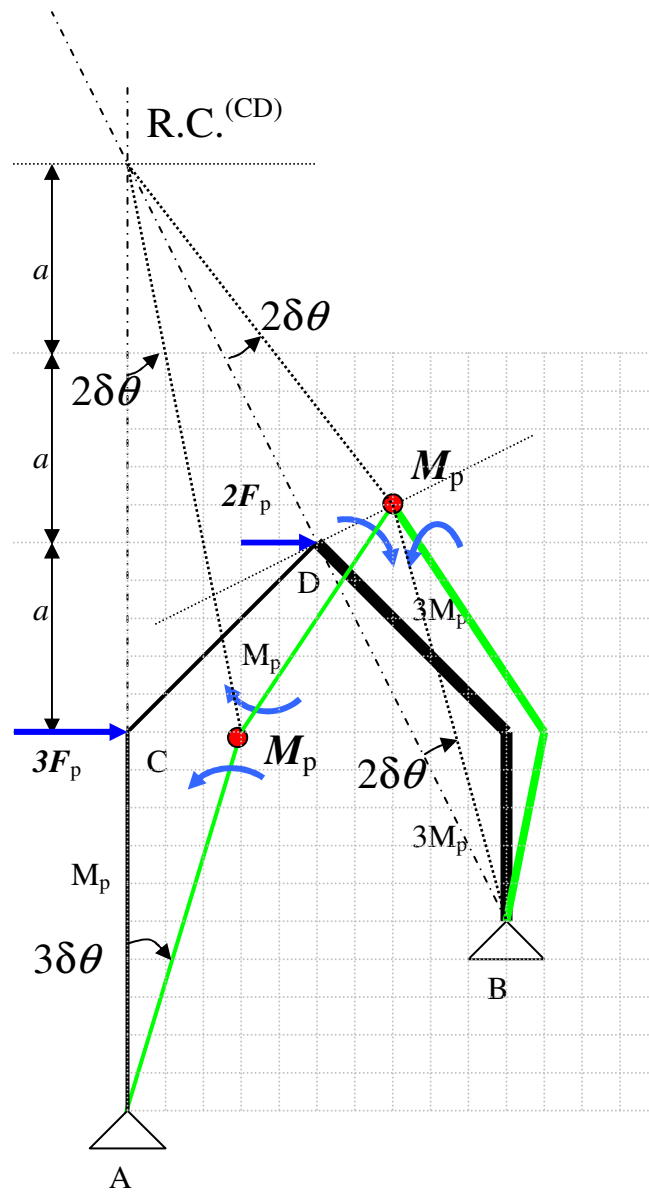
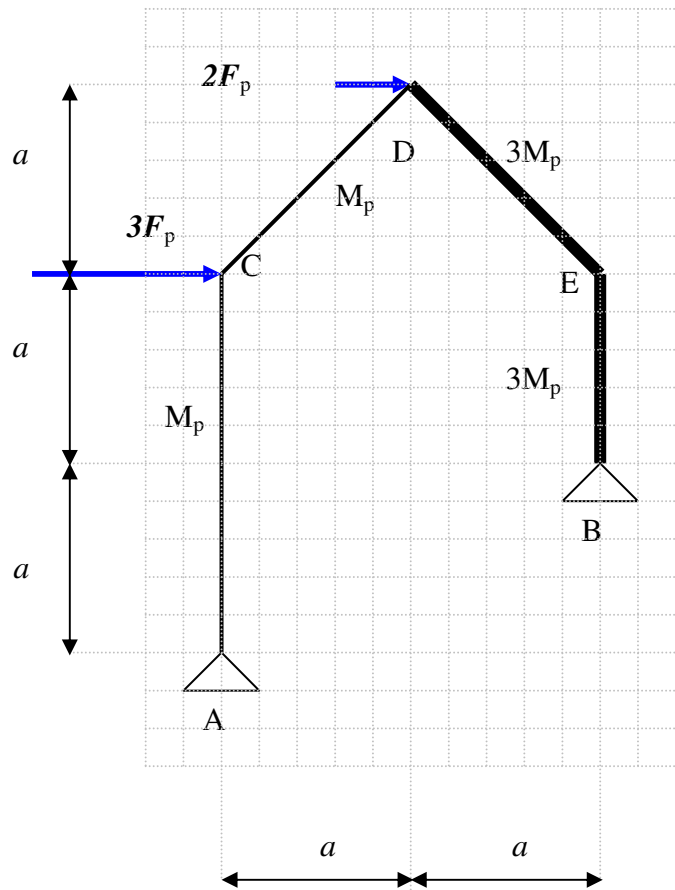


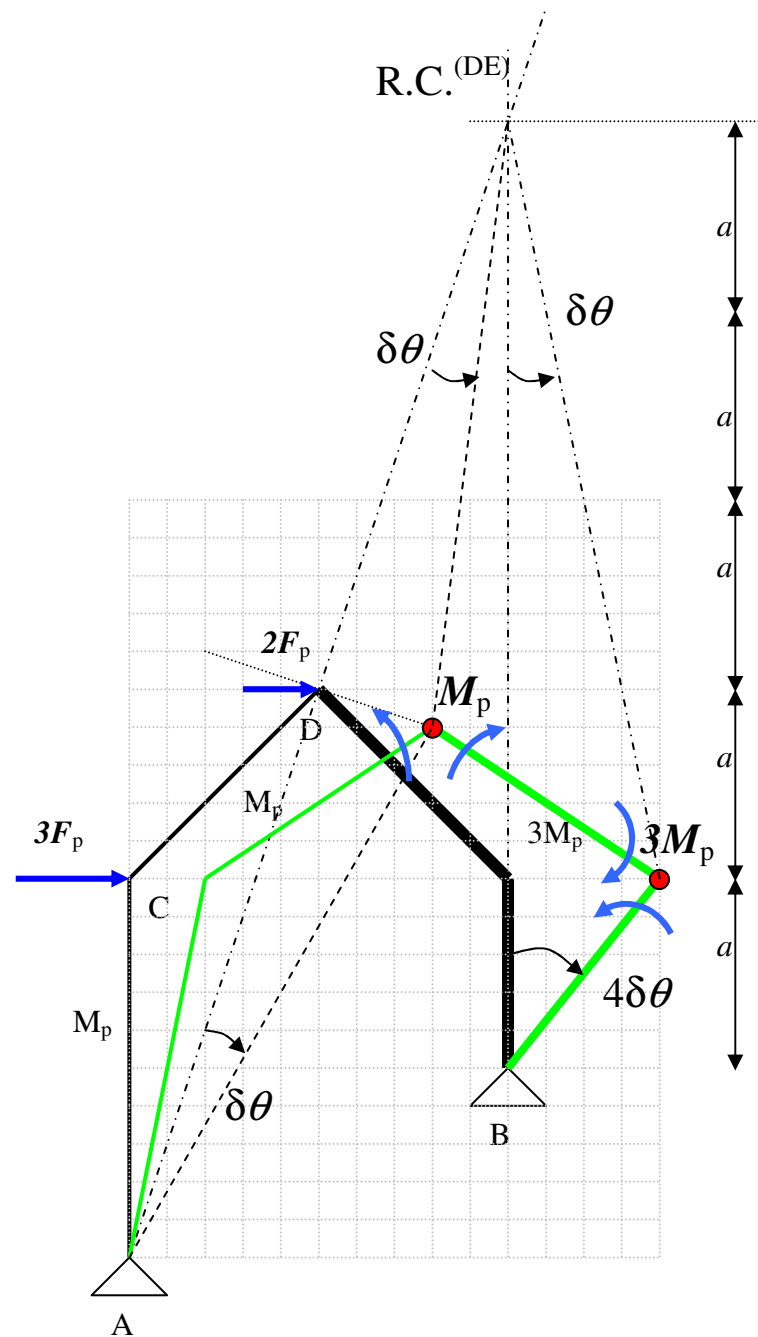
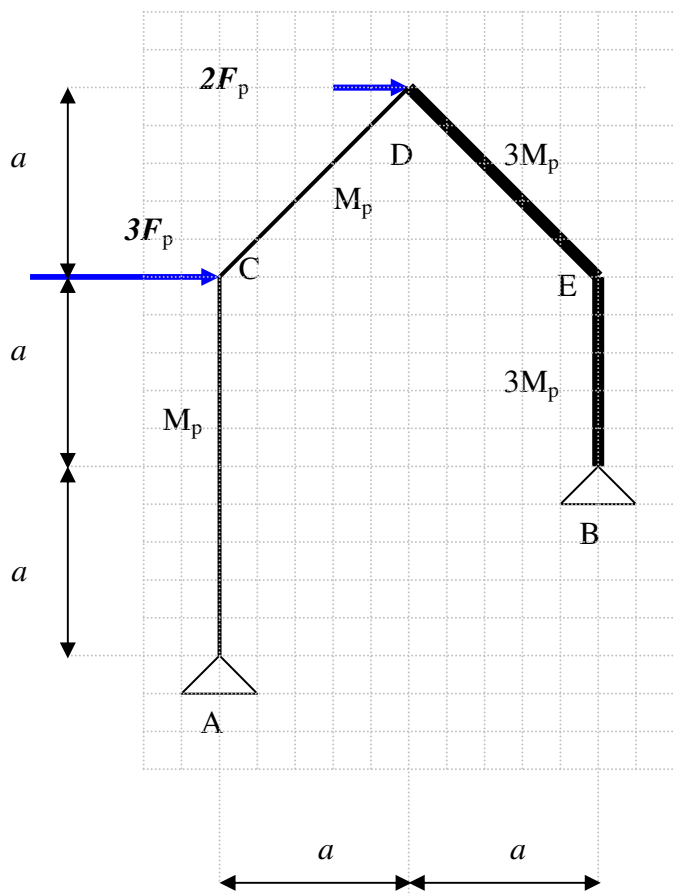
TENTAMENOPGAVE 3



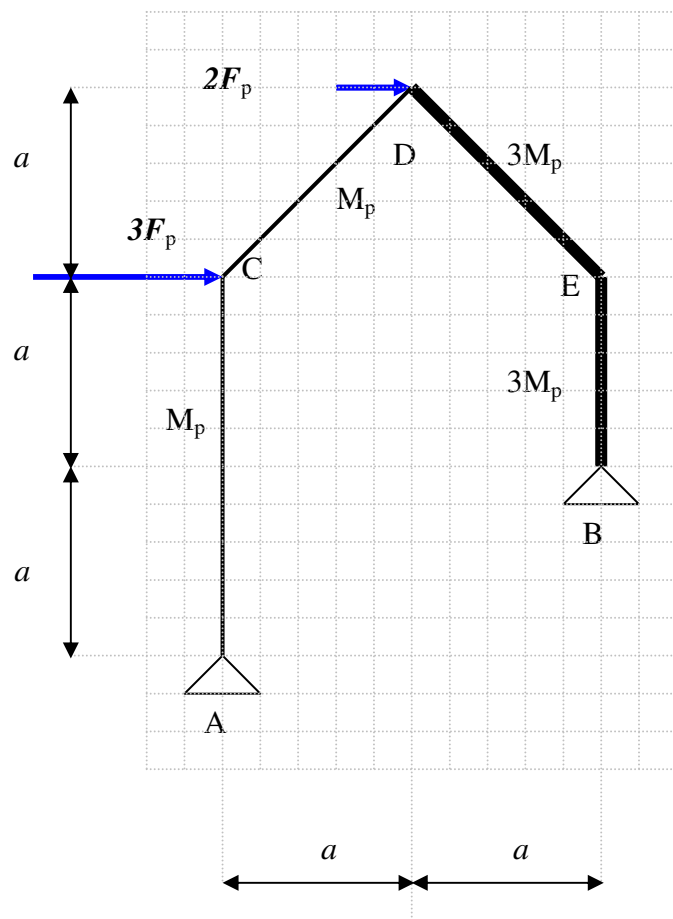
1^e Mécanisme



2^e Mécanisme

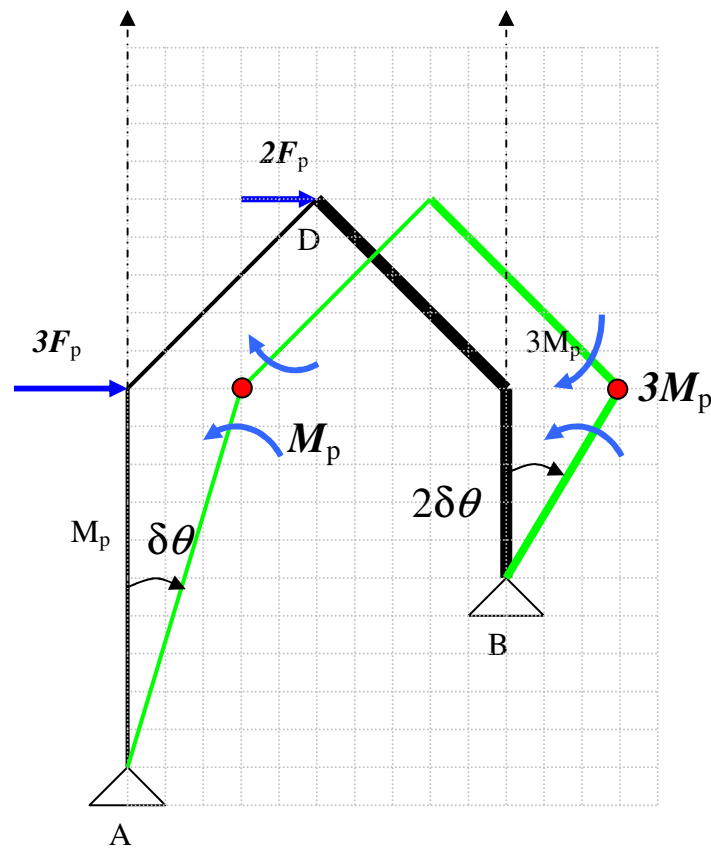


3^e Mechanisme



R.C. ^(CDE) $=\infty$

R.C. ^(CDE) $=\infty$



Virtuele arbeidsvergelijkingen

Mechanisme 1

$$\delta A = -M_p \times 3\delta\theta - M_p \times 2\delta\theta - M_p \times 2\delta\theta - M_p \times 2\delta\theta + 3F \times (2a \times 3\delta\theta) + 2F \times (2a \times 2\delta\theta) = 0$$

$$F_{p-1} = \frac{9M_p}{26a}$$

LAAGSTE BEZWIJKLAST !

Mechanisme 2

$$\delta A = -M_p \times \delta\theta - M_p \times \delta\theta - 3M_p \times \delta\theta - 3M_p \times 4\delta\theta + 3F \times (2a \times \delta\theta) + 2F \times (3a \times \delta\theta) = 0$$

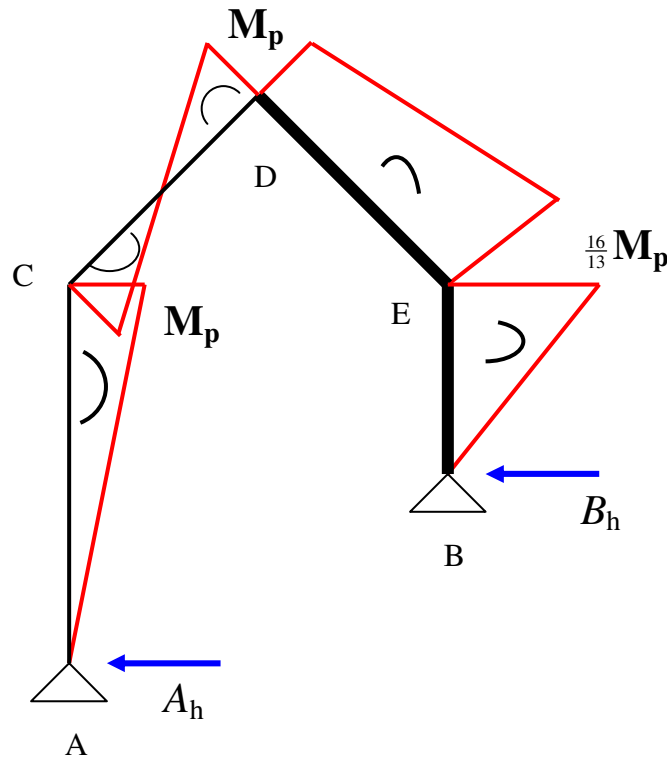
$$F_{p-2} = \frac{17M_p}{12a}$$

Mechanisme 3

$$\delta A = -M_p \times \delta\theta + M_p \times 0 + 3M_p \times 0 - 3M_p \times 2\delta\theta + 3F \times (2a \times \delta\theta) + 2F \times (2a \times \delta\theta) = 0$$

$$F_{p-3} = \frac{7M_p}{10a}$$

MOMENTENLIJN VOOR MECHANISME 1 $F_p = \frac{9M_p}{26a}$



Het moment in E ?

1 De horizontale oplegreactie in A:

$$\sum T|C = 0 \Rightarrow A_h \times 2a = M_p \Rightarrow A_h = \frac{M_p}{2a}$$

$$\sum F_h = 0 \Rightarrow B_h = 5F_p - A_h \Rightarrow B_h = \frac{16M_p}{13a}$$

2 Momentenevenwicht van BE om E:

$$\sum T|E = 0$$

$$B_h \times a = M_E \Rightarrow M_E = \frac{16M_p}{13} < 3M_p$$