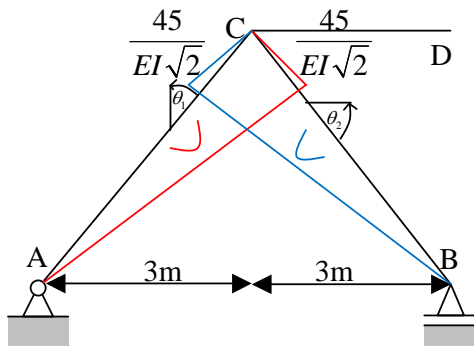


Remarks: See § 8.4, pages 598 till 633

Answers 8.60: 1:

- a) $\varphi_A = -\frac{3}{400}$
 b) $u_{x;B} = 30\text{mm}$
 c) $u_{x;D} = 15\text{mm}$
 $u_{y;D} = -15\text{mm}$
 d) $u_{x;C} = 15\text{mm}$
 $u_{y;C} = -15\text{mm}$

Explanation 8.60: 1:



Explanation 8.60: 1:

- a)
 $\theta_1 = \theta_2 = \frac{3}{400}$
 $6\varphi_A + 4\theta_1 + 2\theta_2 = 0 \Rightarrow \varphi_A = -\frac{3}{400}$
 b)
 $u_{x;B} = 2\theta_1 + 2\theta_2$
 $u_{x;B} = 0.03\text{m}$
 c)
 $u_{x;D} = -3\varphi_A - \theta_1 = 0.015\text{m}$
 $u_{y;D} = 6\varphi_A + 4\theta_1 = -0.015\text{m}$
 d)
 $u_{x;C} = -3\varphi_A - \theta_1 = 0.015\text{m}$
 $u_{y;C} = 3\varphi_A + \theta_1 = -0.015\text{m}$

[Answers 8.60: 2:](#)

$$\text{a) } \varphi_A = -\frac{1}{400}$$

$$\text{b) } u_{x;B} = 15\text{mm}$$

$$\text{c) } u_{x;D} = 7.5\text{mm}$$

$$u_{y;D} = -30\text{mm}$$

$$\text{d) } u_{x;C} = 7.5\text{mm}$$

$$u_{y;C} = -7.5\text{mm}$$