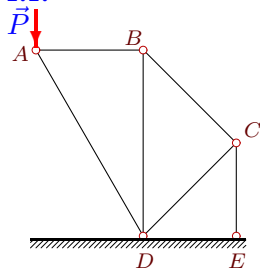


# Плоская конструкция из 6 стержней

Кирсанов М.Н. **Решбник. Теоретическая механика**/Под ред. А. И. Кириллова.– М.: ФИЗМАТЛИТ, 2008. — 384 с. (с.14.)

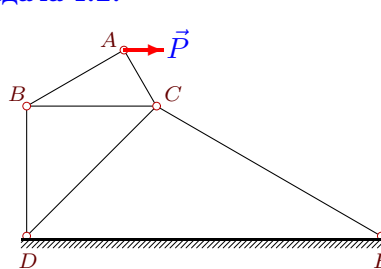
## Задача 1.1.



$P=32$  кН,  
 $\angle ABD=90^\circ$ ,  
 $\angle ADB=30^\circ$ ,  
 $\angle BDC=45^\circ$ ,  
 $\angle BCD=90^\circ$ ,  
 $\angle CDE=45^\circ$ ,  
 $\angle CED=90^\circ$ .

III

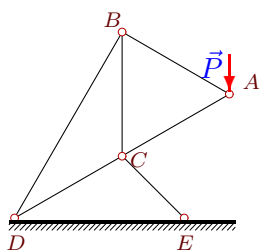
## Задача 1.2.



$P=26$  кН,  
 $\angle ACB=60^\circ$ ,  
 $\angle ABC=30^\circ$ ,  
 $\angle BDC=45^\circ$ ,  
 $\angle BCD=45^\circ$ ,  
 $\angle CDE=45^\circ$ ,  
 $\angle CED=30^\circ$ .

III

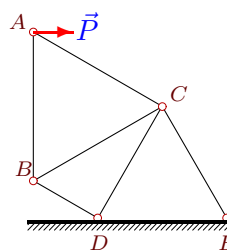
## Задача 1.3.



$P=31$  кН,  
 $\angle ACB=60^\circ$ ,  
 $\angle ABC=60^\circ$ ,  
 $\angle BDC=30^\circ$ ,  
 $\angle BCD=120^\circ$ ,  
 $\angle CDE=30^\circ$ ,  
 $\angle CED=45^\circ$ .

III

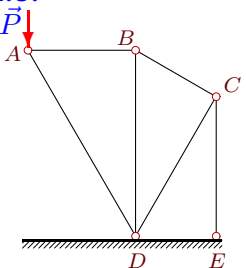
## Задача 1.4.



$P=23$  кН,  
 $\angle ACB=60^\circ$ ,  
 $\angle ABC=60^\circ$ ,  
 $\angle BDC=90^\circ$ ,  
 $\angle BCD=30^\circ$ ,  
 $\angle CDE=60^\circ$ ,  
 $\angle CED=60^\circ$ .

III

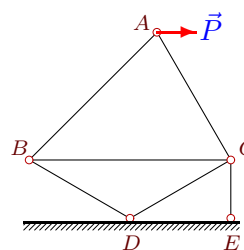
## Задача 1.5.



$P=8$  кН,  
 $\angle ABD=90^\circ$ ,  
 $\angle ADB=30^\circ$ ,  
 $\angle BDC=30^\circ$ ,  
 $\angle BCD=90^\circ$ ,  
 $\angle CDE=60^\circ$ ,  
 $\angle CED=90^\circ$ .

III

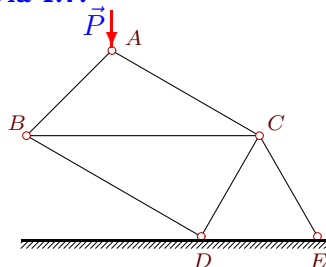
## Задача 1.6.



$P=25$  кН,  
 $\angle ACB=60^\circ$ ,  
 $\angle ABC=45^\circ$ ,  
 $\angle BDC=120^\circ$ ,  
 $\angle BCD=30^\circ$ ,  
 $\angle CDE=30^\circ$ ,  
 $\angle CED=90^\circ$ .

III

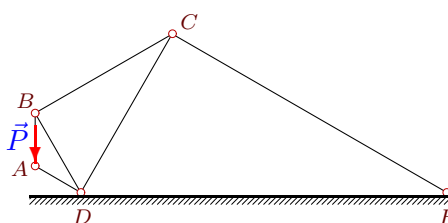
## Задача 1.7.



$P=17$  кН,  
 $\angle ACB=30^\circ$ ,  
 $\angle ABC=45^\circ$ ,  
 $\angle BDC=90^\circ$ ,  
 $\angle BCD=60^\circ$ ,  
 $\angle CDE=60^\circ$ ,  
 $\angle CED=60^\circ$ .

III

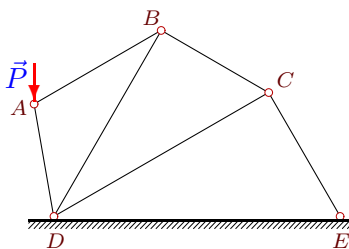
## Задача 1.8.



$P=33$  кН,  
 $\angle ABD=30^\circ$ ,  
 $\angle ADB=30^\circ$ ,  
 $\angle BDC=60^\circ$ ,  
 $\angle BCD=30^\circ$ ,  
 $\angle CDE=60^\circ$ ,  
 $\angle CED=30^\circ$ .

III

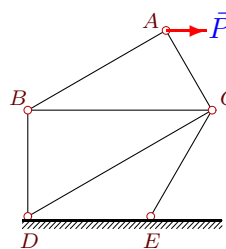
## Задача 1.9.



$P=3$  кН,  
 $\angle ABD=30^\circ$ ,  
 $\angle ADB=40^\circ$ ,  
 $\angle BDC=30^\circ$ ,  
 $\angle BCD=60^\circ$ ,  
 $\angle CDE=30^\circ$ ,  
 $\angle CED=60^\circ$ .

III

## Задача 1.10.

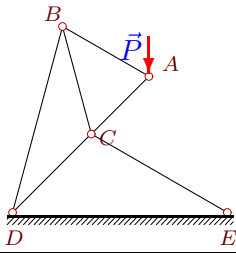


$P=9$  кН,  
 $\angle ACB=60^\circ$ ,  
 $\angle ABC=30^\circ$ ,  
 $\angle BDC=60^\circ$ ,  
 $\angle BCD=30^\circ$ ,  
 $\angle CDE=30^\circ$ ,  
 $\angle CED=120^\circ$ .

III

**Задача 1.11.**

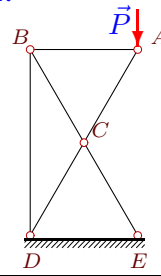
III



$P=32$  кН,  
 $\angle ACB=60^\circ$ ,  
 $\angle ABC=45^\circ$ ,  
 $\angle BDC=30^\circ$ ,  
 $\angle BCD=120^\circ$ ,  
 $\angle CDE=45^\circ$ ,  
 $\angle CED=30^\circ$ .

**Задача 1.12.**

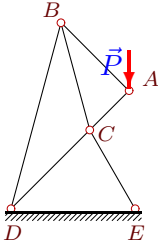
III



$P=16$  кН,  
 $\angle ACB=60^\circ$ ,  
 $\angle ABC=60^\circ$ ,  
 $\angle BDC=30^\circ$ ,  
 $\angle BCD=120^\circ$ ,  
 $\angle CDE=60^\circ$ ,  
 $\angle CED=60^\circ$ .

**Задача 1.13.**

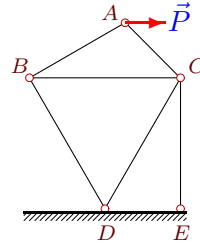
III



$P=17$  кН,  
 $\angle ACB=60^\circ$ ,  
 $\angle ABC=30^\circ$ ,  
 $\angle BDC=30^\circ$ ,  
 $\angle BCD=120^\circ$ ,  
 $\angle CDE=45^\circ$ ,  
 $\angle CED=60^\circ$ .

**Задача 1.14.**

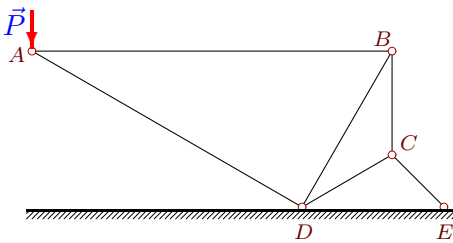
III



$P=27$  кН,  
 $\angle ACB=45^\circ$ ,  
 $\angle ABC=30^\circ$ ,  
 $\angle BDC=60^\circ$ ,  
 $\angle BCD=60^\circ$ ,  
 $\angle CDE=60^\circ$ ,  
 $\angle CED=90^\circ$ .

**Задача 1.15.**

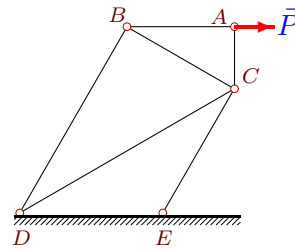
III



$P=27$  кН,  
 $\angle ABD=60^\circ$ ,  
 $\angle ADB=90^\circ$ ,  
 $\angle BDC=30^\circ$ ,  
 $\angle BCD=120^\circ$ ,  
 $\angle CDE=30^\circ$ ,  
 $\angle CED=45^\circ$ .

**Задача 1.16.**

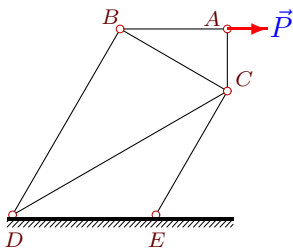
III



$P=29$  кН,  
 $\angle ACB=60^\circ$ ,  
 $\angle ABC=30^\circ$ ,  
 $\angle BDC=30^\circ$ ,  
 $\angle BCD=60^\circ$ ,  
 $\angle CDE=30^\circ$ ,  
 $\angle CED=120^\circ$ .

**Задача 1.17.**

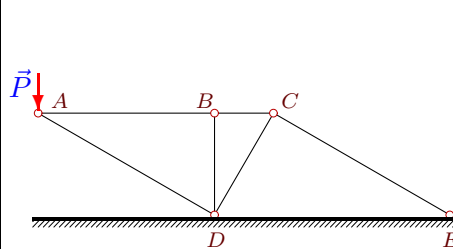
III



$P=30$  кН,  
 $\angle ACB=60^\circ$ ,  
 $\angle ABC=30^\circ$ ,  
 $\angle BDC=30^\circ$ ,  
 $\angle BCD=60^\circ$ ,  
 $\angle CDE=30^\circ$ ,  
 $\angle CED=120^\circ$ .

**Задача 1.18.**

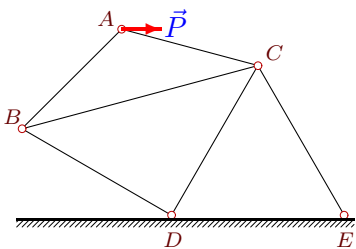
III



$P=12$  кН,  
 $\angle ABD=90^\circ$ ,  
 $\angle ADB=60^\circ$ ,  
 $\angle BDC=30^\circ$ ,  
 $\angle BCD=60^\circ$ ,  
 $\angle CDE=60^\circ$ ,  
 $\angle CED=30^\circ$ .

**Задача 1.19.**

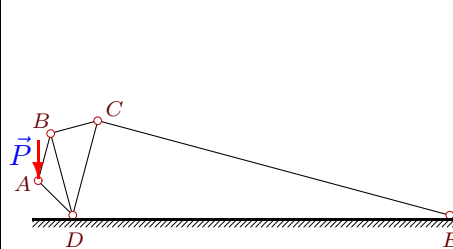
III



$P=5$  кН,  
 $\angle ACB=30^\circ$ ,  
 $\angle ABC=30^\circ$ ,  
 $\angle BDC=90^\circ$ ,  
 $\angle BCD=45^\circ$ ,  
 $\angle CDE=60^\circ$ ,  
 $\angle CED=60^\circ$ .

**Задача 1.20.**

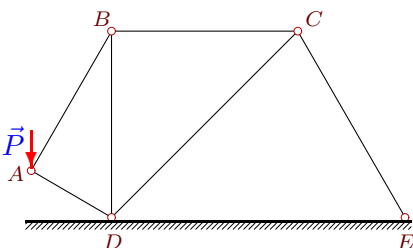
III



$P=14$  кН,  
 $\angle ABD=30^\circ$ ,  
 $\angle ADB=30^\circ$ ,  
 $\angle BDC=30^\circ$ ,  
 $\angle BCD=60^\circ$ ,  
 $\angle CDE=75^\circ$ ,  
 $\angle CED=15^\circ$ .

**Задача 1.21.**

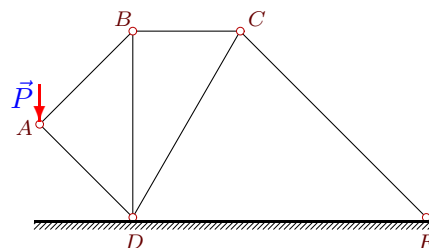
III



$P=28$  кН,  
 $\angle ABD=30^\circ$ ,  
 $\angle ADB=60^\circ$ ,  
 $\angle BDC=45^\circ$ ,  
 $\angle BCD=45^\circ$ ,  
 $\angle CDE=45^\circ$ ,  
 $\angle CED=60^\circ$ .

**Задача 1.22.**

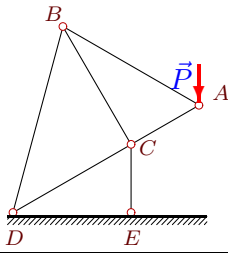
III



$P=6$  кН,  
 $\angle ABD=45^\circ$ ,  
 $\angle ADB=45^\circ$ ,  
 $\angle BDC=30^\circ$ ,  
 $\angle BCD=60^\circ$ ,  
 $\angle CDE=60^\circ$ ,  
 $\angle CED=45^\circ$ .

**Задача 1.23.**

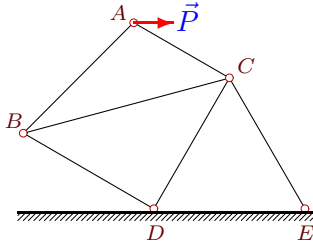
III



$P=18$  кН,  
 $\angle ACB=90^\circ$ ,  
 $\angle ABC=30^\circ$ ,  
 $\angle BDC=45^\circ$ ,  
 $\angle BCD=90^\circ$ ,  
 $\angle CDE=30^\circ$ ,  
 $\angle CED=90^\circ$ .

**Задача 1.25.**

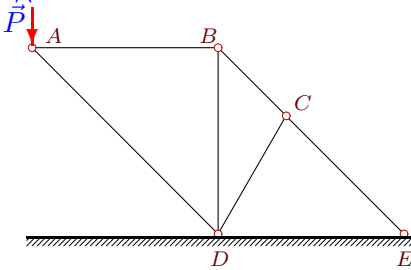
III



$P=20$  кН,  
 $\angle ACB=45^\circ$ ,  
 $\angle ABC=30^\circ$ ,  
 $\angle BDC=90^\circ$ ,  
 $\angle BCD=45^\circ$ ,  
 $\angle CDE=60^\circ$ ,  
 $\angle CED=60^\circ$ .

**Задача 1.27.**

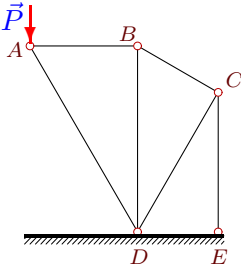
III



$P=10$  кН,  
 $\angle ABD=90^\circ$ ,  
 $\angle ADB=45^\circ$ ,  
 $\angle BDC=30^\circ$ ,  
 $\angle BCD=105^\circ$ ,  
 $\angle CDE=60^\circ$ ,  
 $\angle CED=45^\circ$ .

**Задача 1.29.**

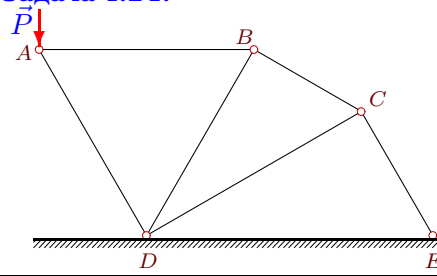
III



$P=16$  кН,  
 $\angle ABD=90^\circ$ ,  
 $\angle ADB=30^\circ$ ,  
 $\angle BDC=30^\circ$ ,  
 $\angle BCD=90^\circ$ ,  
 $\angle CDE=60^\circ$ ,  
 $\angle CED=90^\circ$ .

**Задача 1.24.**

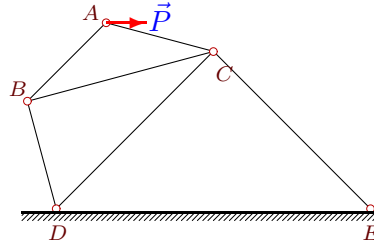
III



$P=27$  кН,  
 $\angle ABD=60^\circ$ ,  
 $\angle ADB=60^\circ$ ,  
 $\angle BDC=30^\circ$ ,  
 $\angle BCD=60^\circ$ ,  
 $\angle CDE=30^\circ$ ,  
 $\angle CED=60^\circ$ .

**Задача 1.26.**

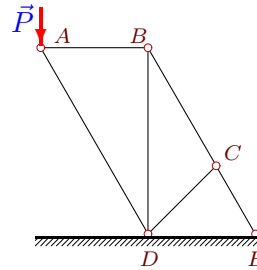
III



$P=23$  кН,  
 $\angle ACB=30^\circ$ ,  
 $\angle ABC=30^\circ$ ,  
 $\angle BDC=60^\circ$ ,  
 $\angle BCD=30^\circ$ ,  
 $\angle CDE=45^\circ$ ,  
 $\angle CED=45^\circ$ .

**Задача 1.28.**

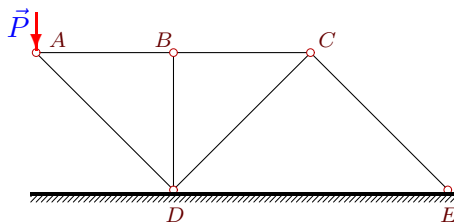
III



$P=25$  кН,  
 $\angle ABD=90^\circ$ ,  
 $\angle ADB=30^\circ$ ,  
 $\angle BDC=45^\circ$ ,  
 $\angle BCD=105^\circ$ ,  
 $\angle CDE=45^\circ$ ,  
 $\angle CED=60^\circ$ .

**Задача 1.30.**

III



$P=18$  кН,  
 $\angle ABD=90^\circ$ ,  
 $\angle ADB=45^\circ$ ,  
 $\angle BDC=45^\circ$ ,  
 $\angle BCD=45^\circ$ ,  
 $\angle CDE=45^\circ$ ,  
 $\angle CED=45^\circ$ .