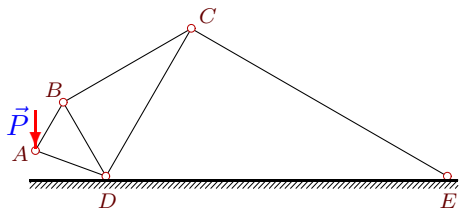
Плоская конструкция из 6 стержней

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

Задача 1.1.

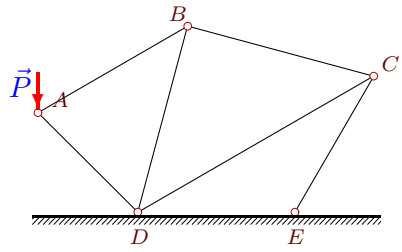
88



P=10 кН,
$\angle ABD$=60°,
$\angle ADB$=40°,
$\angle BDC$=60°,
$\angle BCD$=30°,
$\angle CDE$=60°,
$\angle CED$=30°.

Задача 1.2.

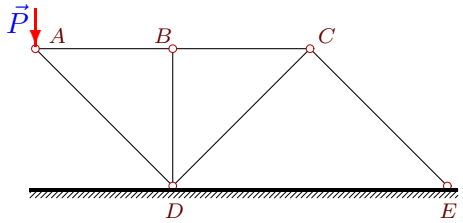
88



P=6 кН,
$\angle ABD$=45°,
$\angle ADB$=60°,
$\angle BDC$=45°,
$\angle BCD$=45°,
$\angle CDE$=30°,
$\angle CED$=120°.

Задача 1.3.

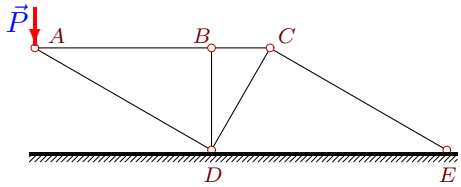
88



P=17 кН,
$\angle ABD$=90°,
$\angle ADB$=45°,
$\angle BDC$=45°,
$\angle BCD$=45°,
$\angle CDE$=45°,
$\angle CED$=45°.

Задача 1.4.

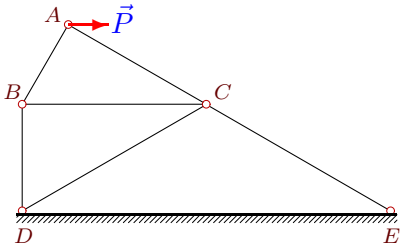
88



P=17 кН,
$\angle ABD$=90°,
$\angle ADB$=60°,
$\angle BDC$=30°,
$\angle BCD$=60°,
$\angle CDE$=60°,
$\angle CED$=30°.

Задача 1.5.

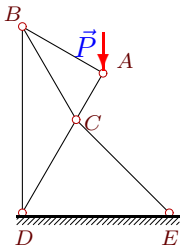
88



P=4 кН,
$\angle ACB$=30°,
$\angle ABC$=60°,
$\angle BDC$=60°,
$\angle BCD$=30°,
$\angle CDE$=30°,
$\angle CED$=30°.

Задача 1.6.

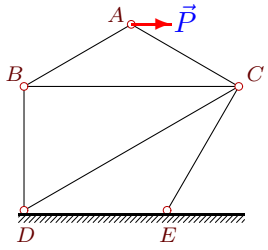
88



P=1 кН,
$\angle ACB$=60°,
$\angle ABC$=30°,
$\angle BDC$=30°,
$\angle BCD$=120°,
$\angle CDE$=60°,
$\angle CED$=45°.

Задача 1.7.

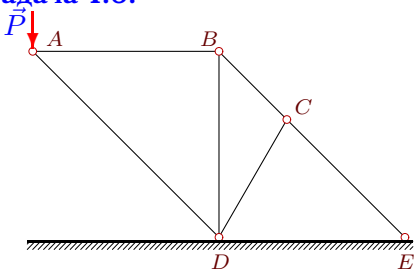
88



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

Задача 1.8.

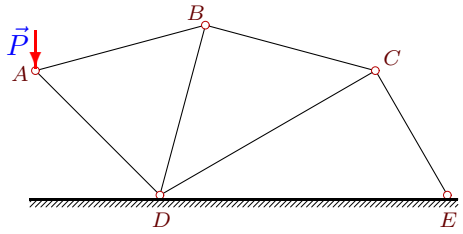
88



P=6 кН,
$\angle ABD$=90°,
$\angle ADB$=45°,
$\angle BDC$=30°,
$\angle BCD$=105°,
$\angle CDE$=60°,
$\angle CED$=45°.

Задача 1.9.

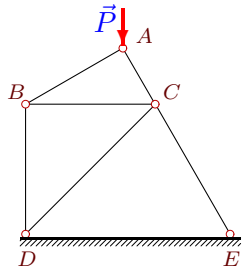
88



P=33 кН,
$\angle ABD$=60°,
$\angle ADB$=60°,
$\angle BDC$=45°,
$\angle BCD$=45°,
$\angle CDE$=30°,
$\angle CED$=60°.

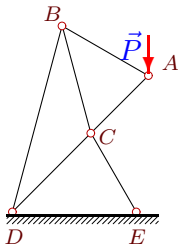
Задача 1.10.

88



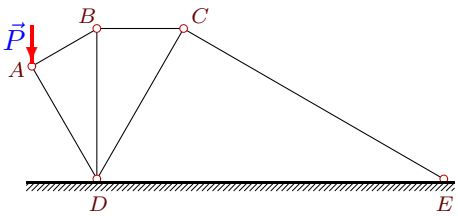
P=25 кН,
$\angle ACB$=60°,
$\angle ABC$=30°,
$\angle BDC$=45°,
$\angle BCD$=45°,
$\angle CDE$=45°,
$\angle CED$=60°.

Задача 1.11. 88



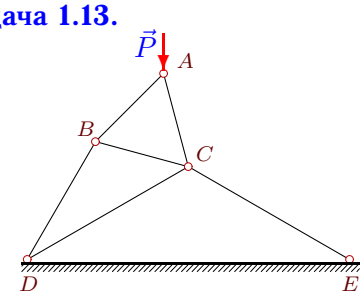
P=3 кН,
$\angle ACB$=60°,
$\angle ABC$=45°,
$\angle BDC$=30°,
$\angle BCD$=120°,
$\angle CDE$=45°,
$\angle CED$=60°.

Задача 1.12. 88



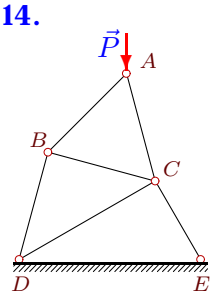
P=17 кН,
$\angle ABD$=60°,
$\angle ADB$=30°,
$\angle BDC$=30°,
$\angle BCD$=60°,
$\angle CDE$=60°,
$\angle CED$=30°.

Задача 1.13. 88



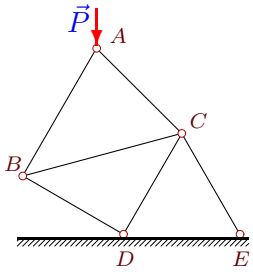
P=2 кН,
$\angle ACB$=60°,
$\angle ABC$=60°,
$\angle BDC$=30°,
$\angle BCD$=45°,
$\angle CDE$=30°,
$\angle CED$=30°.

Задача 1.14. 88



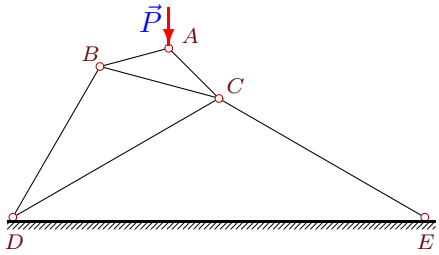
P=9 кН,
$\angle ACB$=60°,
$\angle ABC$=60°,
$\angle BDC$=45°,
$\angle BCD$=45°,
$\angle CDE$=30°,
$\angle CED$=60°.

Задача 1.15. 88



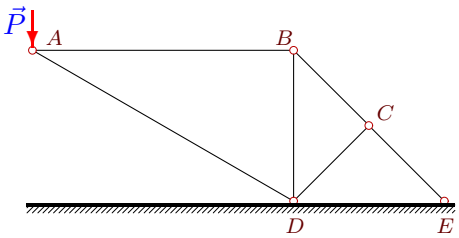
P=1 кН,
$\angle ACB$=60°,
$\angle ABC$=45°,
$\angle BDC$=90°,
$\angle BCD$=45°,
$\angle CDE$=60°,
$\angle CED$=60°.

Задача 1.16. 88



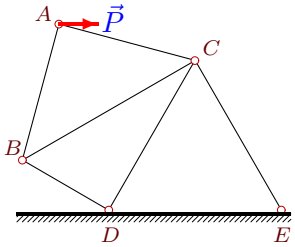
P=25 кН,
$\angle ACB$=30°,
$\angle ABC$=30°,
$\angle BDC$=30°,
$\angle BCD$=45°,
$\angle CDE$=30°,
$\angle CED$=30°.

Задача 1.17. 88



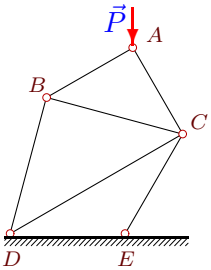
P=27 кН,
$\angle ABD$=90°,
$\angle ADB$=60°,
$\angle BDC$=45°,
$\angle BCD$=90°,
$\angle CDE$=45°,
$\angle CED$=45°.

Задача 1.18. 88



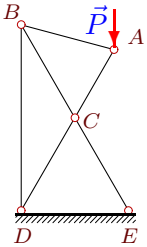
P=16 кН,
$\angle ACB$=45°,
$\angle ABC$=45°,
$\angle BDC$=90°,
$\angle BCD$=30°,
$\angle CDE$=60°,
$\angle CED$=60°.

Задача 1.19. 88



P=6 кН,
$\angle ACB$=45°,
$\angle ABC$=45°,
$\angle BDC$=45°,
$\angle BCD$=45°,
$\angle CDE$=30°,
$\angle CED$=120°.

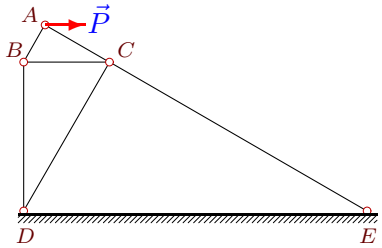
Задача 1.20. 88



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

Задача 1.21.

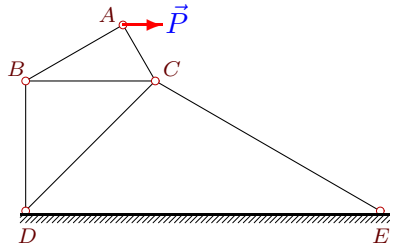
88



P=11 кН,
$\angle ACB$=30°,
$\angle ABC$=60°,
$\angle BDC$=30°,
$\angle BCD$=60°,
$\angle CDE$=60°,
$\angle CED$=30°.

Задача 1.22.

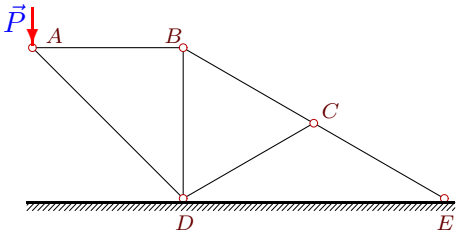
88



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

Задача 1.23.

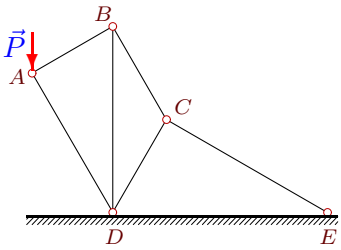
88



P=29 кН,
$\angle ABD$=90°,
$\angle ADB$=45°,
$\angle BDC$=60°,
$\angle BCD$=60°,
$\angle CDE$=30°,
$\angle CED$=30°.

Задача 1.24.

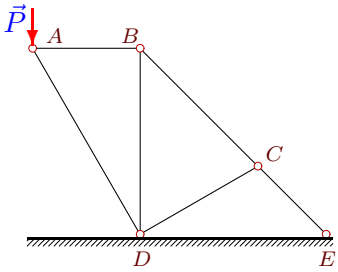
88



P=10 кН,
$\angle ABD$=60°,
$\angle ADB$=30°,
$\angle BDC$=30°,
$\angle BCD$=120°,
$\angle CDE$=60°,
$\angle CED$=30°.

Задача 1.25.

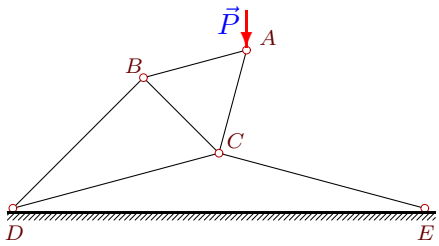
88



P=16 кН,
$\angle ABD$=90°,
$\angle ADB$=30°,
$\angle BDC$=60°,
$\angle BCD$=75°,
$\angle CDE$=30°,
$\angle CED$=45°.

Задача 1.26.

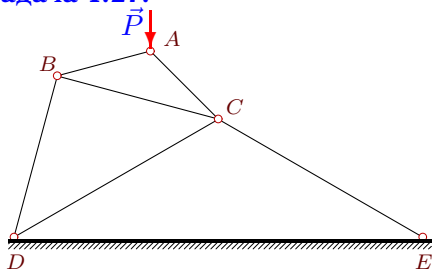
88



P=30 кН,
$\angle ACB$=60°,
$\angle ABC$=60°,
$\angle BDC$=30°,
$\angle BCD$=60°,
$\angle CDE$=15°,
$\angle CED$=15°.

Задача 1.27.

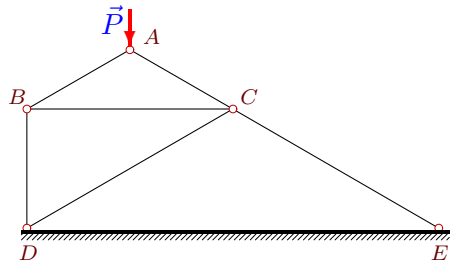
88



P=25 кН,
$\angle ACB$=30°,
$\angle ABC$=30°,
$\angle BDC$=45°,
$\angle BCD$=45°,
$\angle CDE$=30°,
$\angle CED$=30°.

Задача 1.28.

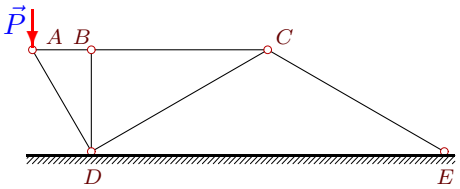
88



P=8 кН,
$\angle ACB$=30°,
$\angle ABC$=30°,
$\angle BDC$=60°,
$\angle BCD$=30°,
$\angle CDE$=30°,
$\angle CED$=30°.

Задача 1.29.

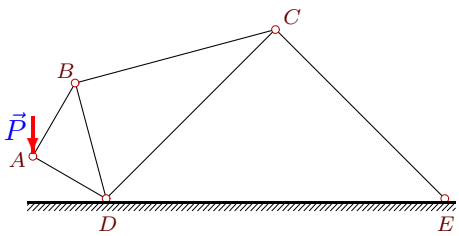
88



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

Задача 1.30.

88



P=14 кН,
$\angle ABD$=45°,
$\angle ADB$=45°,
$\angle BDC$=60°,
$\angle BCD$=30°,
$\angle CDE$=45°,
$\angle CED$=45°.