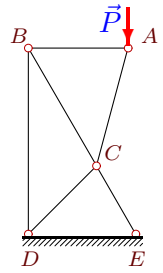
Плоская конструкция из 6 стержней

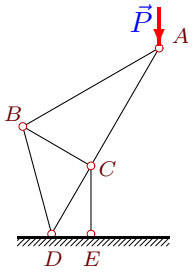
Кирсанов М.Н. **Решебник. Теоретическая механика**/Под ред. А. И. Кириллова.– М.: ФИЗМАТЛИТ, 2008. — 384 с. (с.14.)

Задача 1.1. *888*



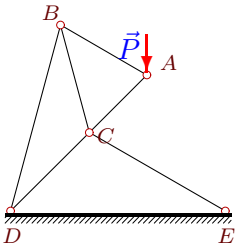
P=8 кН,
$\angle ACB$=45°,
$\angle ABC$=60°,
$\angle BDC$=45°,
$\angle BCD$=105°,
$\angle CDE$=45°,
$\angle CED$=60°.

Задача 1.2. *888*



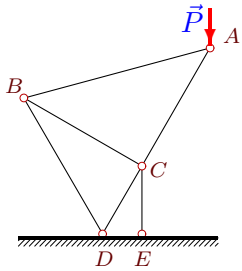
P=33 кН,
$\angle ACB$=90°,
$\angle ABC$=60°,
$\angle BDC$=45°,
$\angle BCD$=90°,
$\angle CDE$=60°,
$\angle CED$=90°.

Задача 1.3. *888*



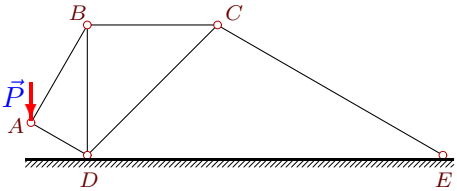
P=22 кН,
$\angle ACB$=60°,
$\angle ABC$=45°,
$\angle BDC$=30°,
$\angle BCD$=120°,
$\angle CDE$=45°,
$\angle CED$=30°.

Задача 1.4. *888*



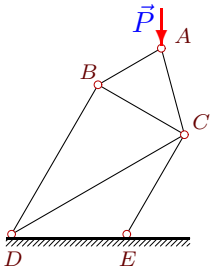
P=20 кН,
$\angle ACB$=90°,
$\angle ABC$=45°,
$\angle BDC$=60°,
$\angle BCD$=90°,
$\angle CDE$=60°,
$\angle CED$=90°.

Задача 1.5. *888*



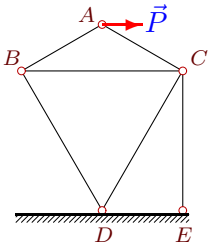
P=2 кН,
$\angle ABD$=30°,
$\angle ADB$=60°,
$\angle BDC$=45°,
$\angle BCD$=45°,
$\angle CDE$=45°,
$\angle CED$=30°.

Задача 1.6. *888*



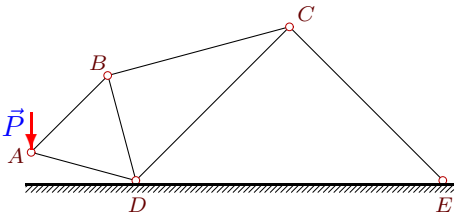
P=2 кН,
$\angle ACB$=45°,
$\angle ABC$=60°,
$\angle BDC$=30°,
$\angle BCD$=60°,
$\angle CDE$=30°,
$\angle CED$=120°.

Задача 1.7. *888*



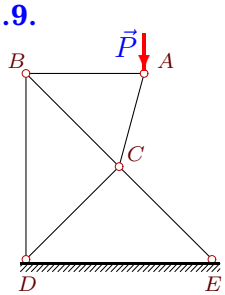
P=7 кН,
$\angle ACB$=30°,
$\angle ABC$=30°,
$\angle BDC$=60°,
$\angle BCD$=60°,
$\angle CDE$=60°,
$\angle CED$=90°.

Задача 1.8. *888*



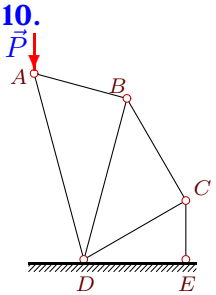
P=25 кН,
$\angle ABD$=60°,
$\angle ADB$=60°,
$\angle BDC$=60°,
$\angle BCD$=30°,
$\angle CDE$=45°,
$\angle CED$=45°.

Задача 1.9. *888*



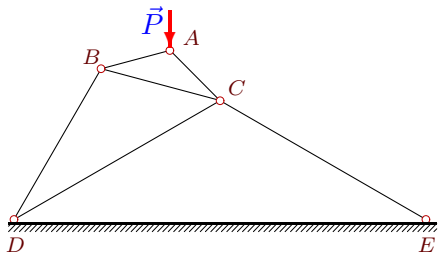
P=16 кН,
$\angle ACB$=60°,
$\angle ABC$=45°,
$\angle BDC$=45°,
$\angle BCD$=90°,
$\angle CDE$=45°,
$\angle CED$=45°.

Задача 1.10. *888*



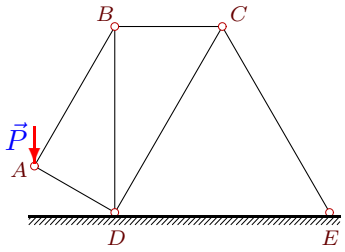
P=30 кН,
$\angle ABD$=90°,
$\angle ADB$=30°,
$\angle BDC$=45°,
$\angle BCD$=90°,
$\angle CDE$=30°,
$\angle CED$=90°.

Задача 1.11. 888



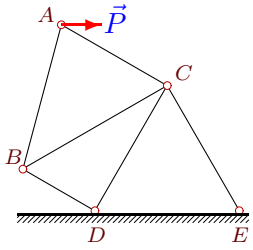
P=11 кН,
$\angle ACB$=30°,
$\angle ABC$=30°,
$\angle BDC$=30°,
$\angle BCD$=45°,
$\angle CDE$=30°,
$\angle CED$=30°.

Задача 1.12. 888



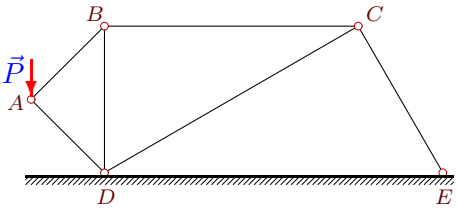
P=11 кН,
$\angle ABD$=30°,
$\angle ADB$=60°,
$\angle BDC$=30°,
$\angle BCD$=60°,
$\angle CDE$=60°,
$\angle CED$=60°.

Задача 1.13. 888



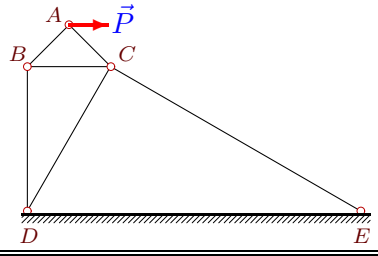
P=4 кН,
$\angle ACB$=60°,
$\angle ABC$=45°,
$\angle BDC$=90°,
$\angle BCD$=30°,
$\angle CDE$=60°,
$\angle CED$=60°.

Задача 1.14. 888



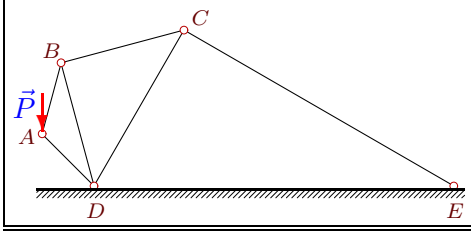
P=24 кН,
$\angle ABD$=45°,
$\angle ADB$=45°,
$\angle BDC$=60°,
$\angle BCD$=30°,
$\angle CDE$=30°,
$\angle CED$=60°.

Задача 1.15. 888



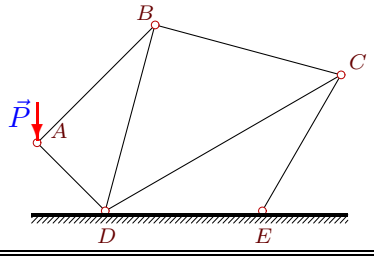
P=25 кН,
$\angle ACB$=45°,
$\angle ABC$=45°,
$\angle BDC$=30°,
$\angle BCD$=60°,
$\angle CDE$=60°,
$\angle CED$=30°.

Задача 1.16. 888



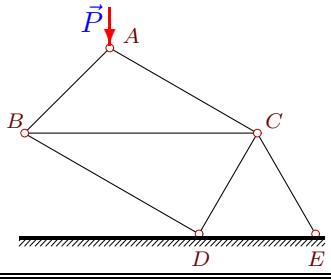
P=3 кН,
$\angle ABD$=30°,
$\angle ADB$=30°,
$\angle BDC$=45°,
$\angle BCD$=45°,
$\angle CDE$=60°,
$\angle CED$=30°.

Задача 1.17. 888



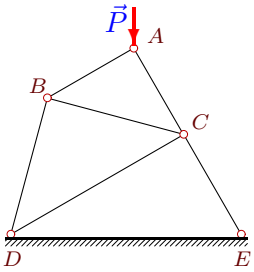
P=4 кН,
$\angle ABD$=30°,
$\angle ADB$=60°,
$\angle BDC$=45°,
$\angle BCD$=45°,
$\angle CDE$=30°,
$\angle CED$=120°.

Задача 1.18. 888



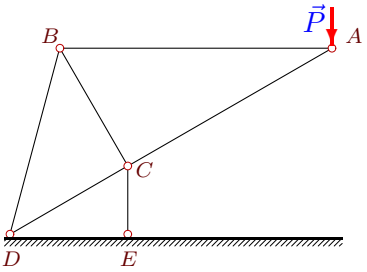
P=29 кН,
$\angle ACB$=30°,
$\angle ABC$=45°,
$\angle BDC$=90°,
$\angle BCD$=60°,
$\angle CDE$=60°,
$\angle CED$=60°.

Задача 1.19. 888



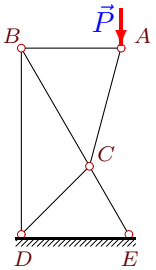
P=21 кН,
$\angle ACB$=45°,
$\angle ABC$=45°,
$\angle BDC$=45°,
$\angle BCD$=45°,
$\angle CDE$=30°,
$\angle CED$=60°.

Задача 1.20. 888



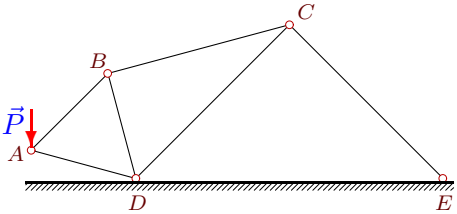
P=10 кН,
$\angle ACB$=90°,
$\angle ABC$=60°,
$\angle BDC$=45°,
$\angle BCD$=90°,
$\angle CDE$=30°,
$\angle CED$=90°.

Задача 1.21. 888



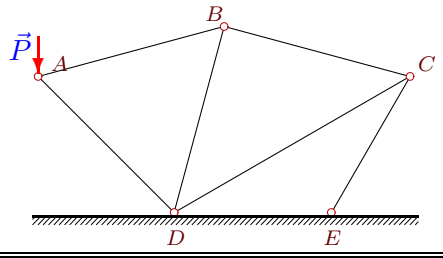
P=27 кН,
$\angle ACB$=45°,
$\angle ABC$=60°,
$\angle BDC$=45°,
$\angle BCD$=105°,
$\angle CDE$=45°,
$\angle CED$=60°.

Задача 1.22. 888



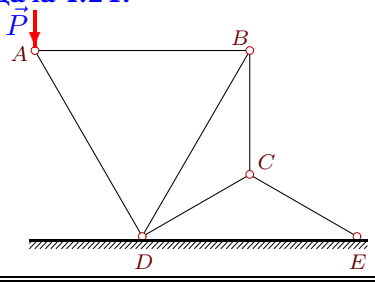
P=32 кН,
$\angle ABD$=60°,
$\angle ADB$=60°,
$\angle BDC$=60°,
$\angle BCD$=30°,
$\angle CDE$=45°,
$\angle CED$=45°.

Задача 1.23. 888



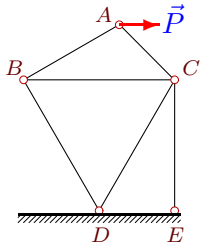
P=27 кН,
$\angle ABD$=60°,
$\angle ADB$=60°,
$\angle BDC$=45°,
$\angle BCD$=45°,
$\angle CDE$=30°,
$\angle CED$=120°.

Задача 1.24. 888



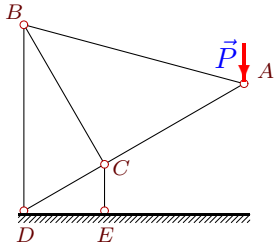
P=15 кН,
$\angle ABD$=60°,
$\angle ADB$=60°,
$\angle BDC$=30°,
$\angle BCD$=120°,
$\angle CDE$=30°,
$\angle CED$=30°.

Задача 1.25. 888



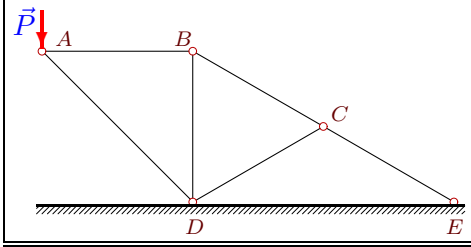
P=10 кН,
$\angle ACB$=45°,
$\angle ABC$=30°,
$\angle BDC$=60°,
$\angle BCD$=60°,
$\angle CDE$=60°,
$\angle CED$=90°.

Задача 1.26. 888



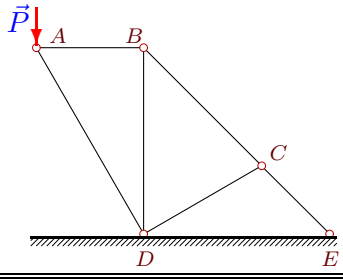
P=25 кН,
$\angle ACB$=90°,
$\angle ABC$=45°,
$\angle BDC$=60°,
$\angle BCD$=90°,
$\angle CDE$=30°,
$\angle CED$=90°.

Задача 1.27. 888



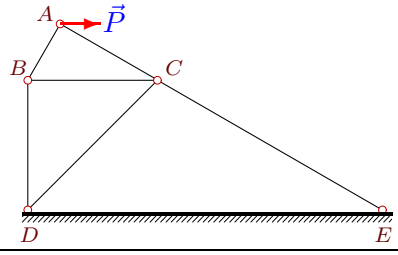
P=32 кН,
$\angle ABD$=90°,
$\angle ADB$=45°,
$\angle BDC$=60°,
$\angle BCD$=60°,
$\angle CDE$=30°,
$\angle CED$=30°.

Задача 1.28. 888



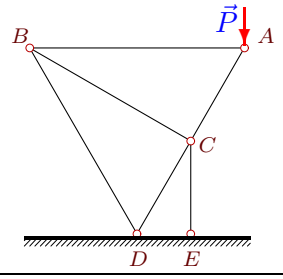
P=3 кН,
$\angle ABD$=90°,
$\angle ADB$=30°,
$\angle BDC$=60°,
$\angle BCD$=75°,
$\angle CDE$=30°,
$\angle CED$=45°.

Задача 1.29. 888



P=7 кН,
$\angle ACB$=30°,
$\angle ABC$=60°,
$\angle BDC$=45°,
$\angle BCD$=45°,
$\angle CDE$=45°,
$\angle CED$=30°.

Задача 1.30. 888



P=15 кН,
$\angle ACB$=90°,
$\angle ABC$=30°,
$\angle BDC$=60°,
$\angle BCD$=90°,
$\angle CDE$=60°,
$\angle CED$=90°.