Плоская конструкция из 6 стержней

Задача 1.1. 40
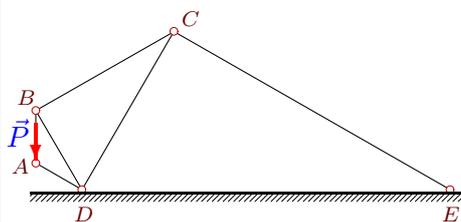
P=8 кН,
$\angle ABD$=30°,
$\angle ADB$=30°,
$\angle BDC$=60°,
$\angle BCD$=30°,
$\angle CDE$=60°,
$\angle CED$=30°.

Задача 1.2. 40
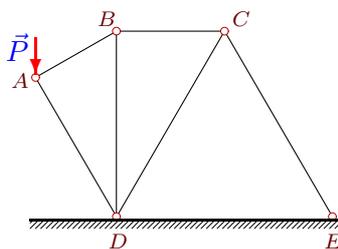
P=29 кН,
$\angle ABD$=60°,
$\angle ADB$=30°,
$\angle BDC$=30°,
$\angle BCD$=60°,
$\angle CDE$=60°,
$\angle CED$=60°.

Задача 1.3. 40
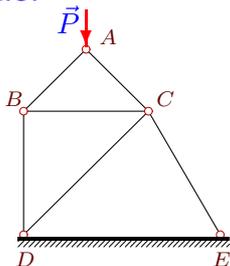
P=24 кН,
$\angle ACB$=45°,
$\angle ABC$=45°,
$\angle BDC$=45°,
$\angle BCD$=45°,
$\angle CDE$=45°,
$\angle CED$=60°.

Задача 1.4. 40
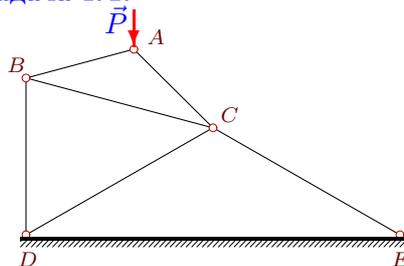
P=20 кН,
$\angle ACB$=30°,
$\angle ABC$=30°,
$\angle BDC$=60°,
$\angle BCD$=45°,
$\angle CDE$=30°,
$\angle CED$=30°.

Задача 1.5. 40
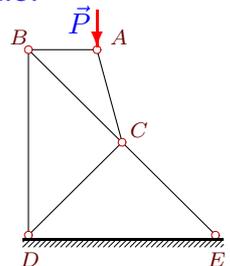
P=20 кН,
$\angle ACB$=30°,
$\angle ABC$=45°,
$\angle BDC$=45°,
$\angle BCD$=90°,
$\angle CDE$=45°,
$\angle CED$=45°.

Задача 1.6. 40
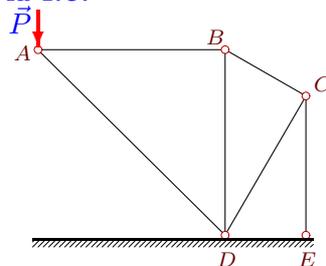
P=30 кН,
$\angle ABD$=90°,
$\angle ADB$=45°,
$\angle BDC$=30°,
$\angle BCD$=90°,
$\angle CDE$=60°,
$\angle CED$=90°.

Задача 1.7. 40
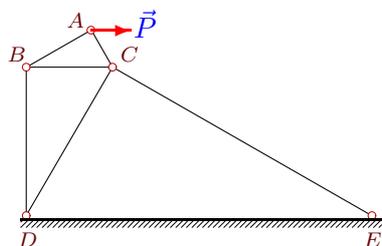
P=31 кН,
$\angle ACB$=60°,
$\angle ABC$=30°,
$\angle BDC$=30°,
$\angle BCD$=60°,
$\angle CDE$=60°,
$\angle CED$=30°.

Задача 1.8. 40
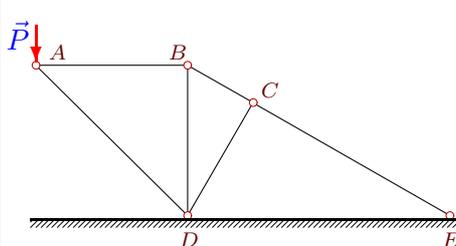
P=20 кН,
$\angle ABD$=90°,
$\angle ADB$=45°,
$\angle BDC$=30°,
$\angle BCD$=90°,
$\angle CDE$=60°,
$\angle CED$=30°.

Задача 1.9. 40
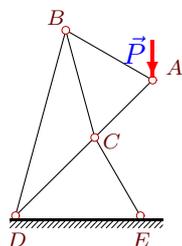
P=25 кН,
$\angle ACB$=60°,
$\angle ABC$=45°,
$\angle BDC$=30°,
$\angle BCD$=120°,
$\angle CDE$=45°,
$\angle CED$=60°.

Задача 1.10. 40
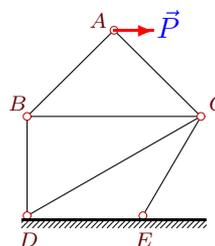
P=1 кН,
$\angle ACB$=45°,
$\angle ABC$=45°,
$\angle BDC$=60°,
$\angle BCD$=30°,
$\angle CDE$=30°,
$\angle CED$=120°.

Задача 1.11.

40
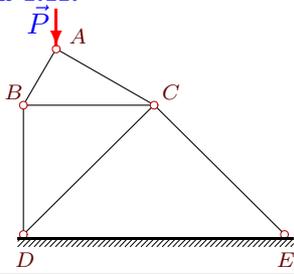
$P=1$ кН,
$\angle ACB=30°$,
$\angle ABC=60°$,
$\angle BDC=45°$,
$\angle BCD=45°$,
$\angle CDE=45°$,
$\angle CED=45°$.

Задача 1.12.

40
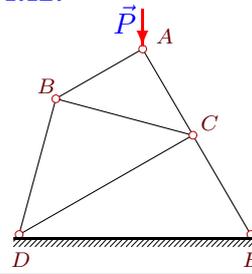
$P=24$ кН,
$\angle ACB=45°$,
$\angle ABC=45°$,
$\angle BDC=45°$,
$\angle BCD=45°$,
$\angle CDE=30°$,
$\angle CED=60°$.

Задача 1.13.

40
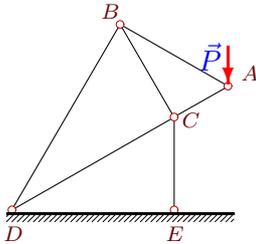
$P=28$ кН,
$\angle ACB=90°$,
$\angle ABC=30°$,
$\angle BDC=30°$,
$\angle BCD=90°$,
$\angle CDE=30°$,
$\angle CED=90°$.

Задача 1.14.

40
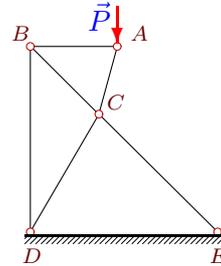
$P=15$ кН,
$\angle ACB=60°$,
$\angle ABC=45°$,
$\angle BDC=30°$,
$\angle BCD=105°$,
$\angle CDE=60°$,
$\angle CED=45°$.

Задача 1.15.

40
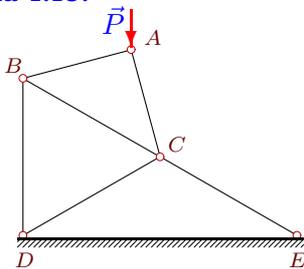
$P=9$ кН,
$\angle ACB=45°$,
$\angle ABC=45°$,
$\angle BDC=60°$,
$\angle BCD=60°$,
$\angle CDE=30°$,
$\angle CED=30°$.

Задача 1.16.

40
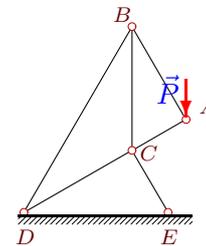
$P=19$ кН,
$\angle ACB=60°$,
$\angle ABC=30°$,
$\angle BDC=30°$,
$\angle BCD=120°$,
$\angle CDE=30°$,
$\angle CED=60°$.

Задача 1.17.

40
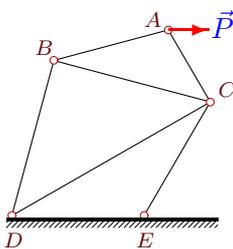
$P=5$ кН,
$\angle ACB=45°$,
$\angle ABC=30°$,
$\angle BDC=45°$,
$\angle BCD=45°$,
$\angle CDE=30°$,
$\angle CED=120°$.

Задача 1.18.

40
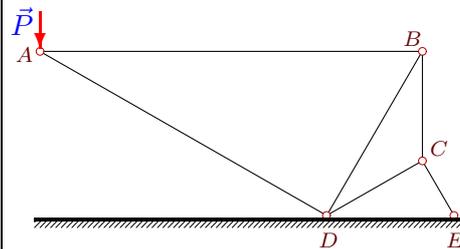
$P=26$ кН,
$\angle ABD=60°$,
$\angle ADB=90°$,
$\angle BDC=30°$,
$\angle BCD=120°$,
$\angle CDE=30°$,
$\angle CED=60°$.

Задача 1.19.

40
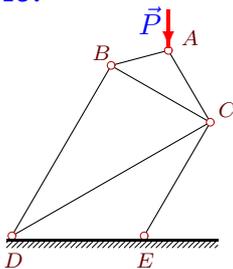
$P=19$ кН,
$\angle ACB=30°$,
$\angle ABC=45°$,
$\angle BDC=30°$,
$\angle BCD=60°$,
$\angle CDE=30°$,
$\angle CED=120°$.

Задача 1.20.

40
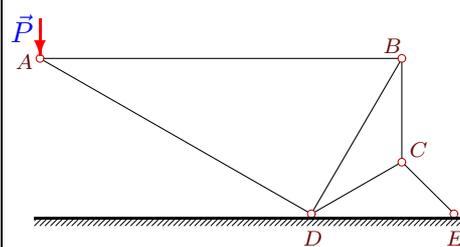
$P=7$ кН,
$\angle ABD=60°$,
$\angle ADB=90°$,
$\angle BDC=30°$,
$\angle BCD=120°$,
$\angle CDE=30°$,
$\angle CED=45°$.

Задача 1.21.

40
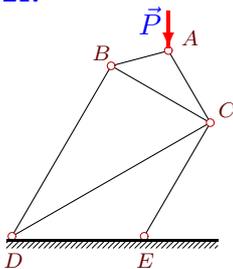
$P=26$ кН,
$\angle ACB=30°$,
$\angle ABC=45°$,
$\angle BDC=30°$,
$\angle BCD=60°$,
$\angle CDE=30°$,
$\angle CED=120°$.

Задача 1.22.

40
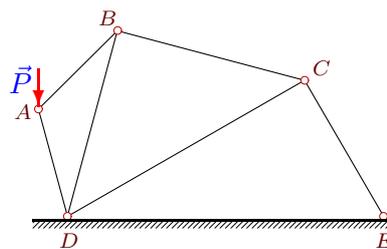
$P=24$ кН,
$\angle ABD=30°$,
$\angle ADB=30°$,
$\angle BDC=45°$,
$\angle BCD=45°$,
$\angle CDE=30°$,
$\angle CED=60°$.

Задача 1.23.
40
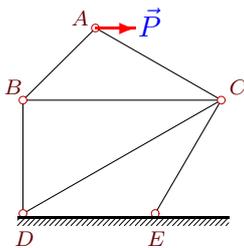
P=30 кН,
$\angle ACB$=30°,
$\angle ABC$=45°,
$\angle BDC$=60°,
$\angle BCD$=30°,
$\angle CDE$=30°,
$\angle CED$=120°.

Задача 1.24.
40

P=14 кН,
$\angle ACB$=60°,
$\angle ABC$=60°,
$\angle BDC$=45°,
$\angle BCD$=45°,
$\angle CDE$=30°,
$\angle CED$=60°.
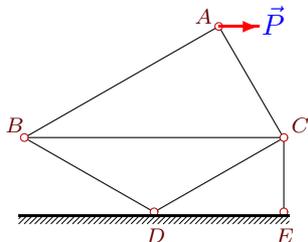
Задача 1.25.
40

P=3 кН,
$\angle ACB$=60°,
$\angle ABC$=30°,
$\angle BDC$=120°,
$\angle BCD$=30°,
$\angle CDE$=30°,
$\angle CED$=90°.
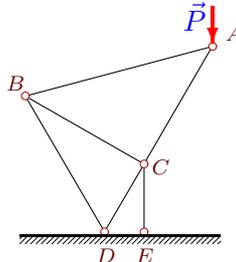
Задача 1.26.
40

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

Задача 1.27.
40

P=25 кН,
$\angle ABD$=90°,
$\angle ADB$=45°,
$\angle BDC$=60°,
$\angle BCD$=60°,
$\angle CDE$=30°,
$\angle CED$=30°.
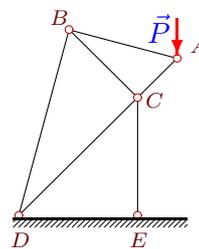
Задача 1.28.
40

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

Задача 1.29.
40

P=19 кН,
$\angle ABD$=60°,
$\angle ADB$=60°,
$\angle BDC$=30°,
$\angle BCD$=120°,
$\angle CDE$=30°,
$\angle CED$=30°.

Задача 1.30.
40
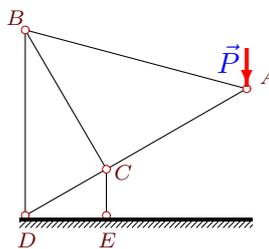
P=25 кН,
$\angle ACB$=90°,
$\angle ABC$=45°,
$\angle BDC$=60°,
$\angle BCD$=90°,
$\angle CDE$=30°,
$\angle CED$=90°.