```
PRIMERI IZ 1. PDF-A

naivni alg
[[ 2.  0.  0.]
 [ 0.  2. -1.]
 [ 0. -1.  2.]]
dlt algoritam --> dobija se kao kod naivnog
[[ 2  0  0]
 [ 0  2 -1]
 [ 0 -1  2]]
modif dlt algoritam --> dobija se kao kod naivnog
[[[ 2  0  0]
  [ 0  2 -1]
  [ 0 -1  2]]]
```

```
PRIMERI IZ 2. PDF-A

naivni algoritam - mora 4 tacke:

[[ 0.44871795  0.14957265 -0.5982906 ]
 [-0.19230769  0.76923077 -0.57692308]
 [-0.07277526  0.07378079  0.41075918]]

dlt algoritam - za 4 tacke:

[[ 0.3418787   0.11395957 -0.45583826]
 [-0.14651944  0.58607777 -0.43955833]
 [-0.05544755  0.05621367  0.31295787]]

dlt algoritam - za pet tacaka:

[[ 0.34349761  0.11823681 -0.48379032]
 [-0.15246704  0.58506938 -0.39503374]
 [-0.05732138  0.05556327  0.32557538]]

dlt nije osetljiv na permutaciju odgovarajucih tacaka:

[[-0.34349761 -0.11823681  0.48379032]
 [ 0.15246704 -0.58506938  0.39503374]
 [ 0.05732138 -0.05556327 -0.32557538]]

dlt nije invarijantan na promenu koordinata:

dlt pre promene koordinata

[[-0.3435 -0.1182  0.4838]
 [ 0.1525 -0.5851  0.395 ]
 [ 0.0573 -0.0556 -0.3256]]

dlt posle promene koordinata

[[-0.3435 -0.1167  0.4744]
 [ 0.1552 -0.5898  0.3949]
 [ 0.0583 -0.0557 -0.331 ]]
```

PRIMERI IZ 2. PDF-A

modifikovani DLT algoritam - poredjenje sa DLP algoritmom i invarijantnost u odnosu na tranformaciju koordinata:

dlt algoritam

```
[[-0.343498 -0.118237  0.48379 ]
 [ 0.152467 -0.585069  0.395034]
 [ 0.057321 -0.055563 -0.325575]]
```

modifikovani dlt algoritam

```
[[-0.343498 -0.117186  0.477321]
 [ 0.155962 -0.590155  0.391082]
 [ 0.058343 -0.056006 -0.330244]]
```

modifikovani dlt ne zavisi od izbora koordinata:

modifikovani dlt pre promene koordinata

```
[[-0.5195 -0.1772  0.7219]
 [ 0.2359 -0.8925  0.5914]
 [ 0.0882 -0.0847 -0.4994]]
```

modifikovani dlt posle pormene koordinata

```
[[ 0.5195  0.1772 -0.7219]
 [-0.2359  0.8925 -0.5914]
 [-0.0882  0.0847  0.4994]]
```

```
PRIMERI IZ 3. PDFA

primenom naivnog alg dobijamo istu matricu
[[ 0  3  5]
 [ 4  0  0]
 [-1 -1  6]]

primena dlt algoritma

pre skaliranja

[[ 5.30528511e-05  3.20011319e-01  5.32929220e-01]
 [ 4.26445525e-01 -2.02187024e-05 -2.95145391e-05]
 [-1.06595323e-01 -1.06519060e-01  6.39542445e-01]]

posle skaliranja

[[ 4.97352886e-04  3.00000000e+00  4.99603472e+00]
 [ 3.99778538e+00 -1.89543630e-04 -2.76689017e-04]
 [-9.99295809e-01 -9.98580867e-01  5.99549835e+00]]

primena modifikovanog dlt algoritma

pre skaliranja
[[ 2.78870278e-04  2.35462113e-01  3.90228745e-01]
 [ 3.12763189e-01 -4.21918913e-05 -1.51134635e-04]
 [-7.81013437e-02 -7.77052190e-02  4.68449489e-01]]

posle skaliranja
[[ 3.55305923e-03  3.00000000e+00  4.97186668e+00]
 [ 3.98488553e+00 -5.37562804e-04 -1.92559175e-03]
 [-9.95081662e-01 -9.90034676e-01  5.96846960e+00]]
```

```
PRIMERI IZ 3. PDFA

testiramo invarijantnost u odnosu na promenu koordinata

PRVO DLT
nakon promene:
[[ 3.54052815e-03  3.00000000e+00  4.97202594e+00]
 [ 3.98495769e+00 -5.41495292e-04 -1.90602316e-03]
 [-9.95105736e-01 -9.90084898e-01  5.96862723e+00]]

pre promene
[[ 4.97352886e-04  3.00000000e+00  4.99603472e+00]
 [ 3.99778538e+00 -1.89543630e-04 -2.76689017e-04]
 [-9.99295809e-01 -9.98580867e-01  5.99549835e+00]]

SADA MODIF DLT
nakon promene:
[[ 3.55305923e-03  3.00000000e+00  4.97186668e+00]
 [ 3.98488553e+00 -5.37562804e-04 -1.92559175e-03]
 [-9.95081662e-01 -9.90034676e-01  5.96846960e+00]]

pre promene
[[ 3.55305923e-03  3.00000000e+00  4.97186668e+00]
 [ 3.98488553e+00 -5.37562804e-04 -1.92559175e-03]
 [-9.95081662e-01 -9.90034676e-01  5.96846960e+00]]
```