

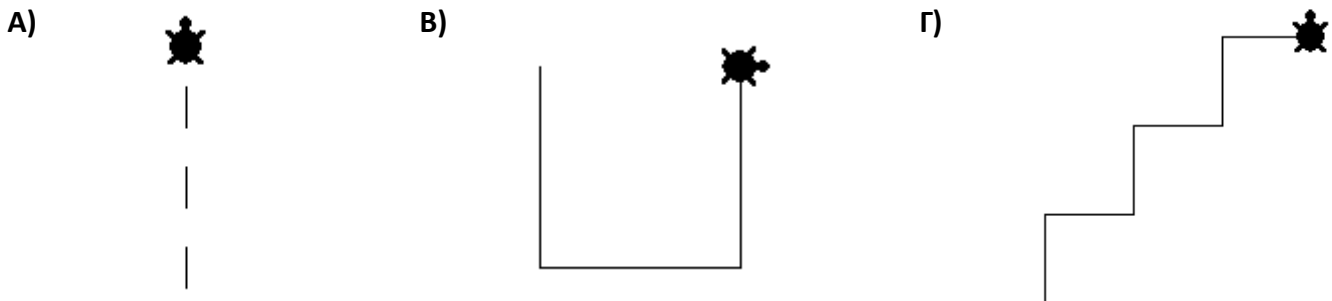
ΑΣΚΗΣΗ 1

- | | | | |
|----------------|--------------|----------------|--------------|
| 1. μικρόκοσμος | 6. repeat | 11. αστεριού | 16. everyone |
| 2. χελώνα | 7. οδηγίων | 12. setheading | 17. tto |
| 3. γεωμετρικά | 8. πλήρους | 13. glide | 18. towards |
| 4. cg | 9. back / bk | 14. clean | 19. ht / st |
| 5. pd | 10. μοίρες | 15. bg | 20. 1..30 |

ΑΣΚΗΣΗ 2

- A) `repeat 4 [fd 50 rt 90]`
B) `repeat 3 [fd 150 rt 120]`
Γ) `repeat 5 [fd 70 rt 72]`
Δ) `repeat 6 [fd 130 rt 60]`
Ε) `repeat 8 [fd 60 rt 45]`
ΣΤ) `repeat 20 [fd 30 rt 18]`

ΑΣΚΗΣΗ 3



ΑΣΚΗΣΗ 4

- A) `pd`
`fd 100 rt 45`
`fd 100 rt 90`
`fd 100 rt 45`
`fd 100 rt 90`
`fd 140`
`rt 90`
- B) `repeat 360 [fd 2 rt 1]`

ΑΣΚΗΣΗ 5

A) pd
repeat 4 [fd 200 rt 90]
repeat 4 [fd 150 rt 90]
repeat 4 [fd 100 rt 90]
repeat 4 [fd 50 rt 90]

B) pd
repeat 3 [fd 200 rt 120]
repeat 3 [fd 150 rt 120]
repeat 3 [fd 100 rt 120]
repeat 3 [fd 50 rt 120]

Γ) pd
repeat 360 [fd 1 rt 1]
repeat 360 [fd 2 rt 1]
repeat 360 [fd 3 rt 1]

ΑΣΚΗΣΗ 6

1^ο σχήμα

```
pd
repeat 4 [fd 100 rt 90]
rt 90
repeat 4 [fd 100 rt 90]
rt 90
repeat 4 [fd 100 rt 90]
rt 90
repeat 4 [fd 100 rt 90]
rt 90
```

```
pd
repeat 4
  [repeat 4 [fd 100 rt 90]
   rt 90]
```

2^ο σχήμα

```
pd
repeat 3 [fd 100 rt 120]
rt 90
repeat 3 [fd 100 rt 120]
rt 90
repeat 3 [fd 100 rt 120]
rt 90
repeat 3 [fd 100 rt 120]
rt 90
```

```
pd
repeat 4
  [repeat 3 [fd 100 rt 120]
   rt 90]
```

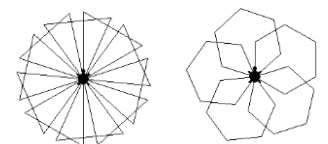
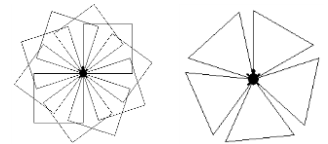
ΑΣΚΗΣΗ 7

A) pd
repeat 10 [**repeat** 4 [fd 100 rt 90] rt 36]

B) pd
repeat 5 [**repeat** 3 [fd 100 rt 120] rt 72]

Γ) pd
repeat 10 [**repeat** 3 [fd 100 rt 120] rt 36]

Δ) pd
repeat 5 [**repeat** 6 [fd 100 rt 60] rt 72]



ΑΣΚΗΣΗ 8

- 1) `setbg 45`
- 2) `newturtle "t1 st`
- 3) `setpos [-200 150]`
- 4) `newturtle "t2 st`
- 5) `setpos [200 -150]`
- 6) `t1, setc 15`
`t2, setc 105`
- 7) `t1, towards "t2 glide 200 0.1`
- 8) `t2, towards "t1 glide 200 0.5`
- 9) `everyone [rt 45]`
- 10) `everyone [pd repeat 4 [fd 50 rt 90]]`
- 11) `clean`
- 12) `setbg 0`
- 13) `tto [t1 t2] setheading 0`