Πρόβλημα 2:

300cm

Μπαλκονόπορτα

100cm

Κρεβάτι

200cm

Καρέκλα

Γραφείο

160cm
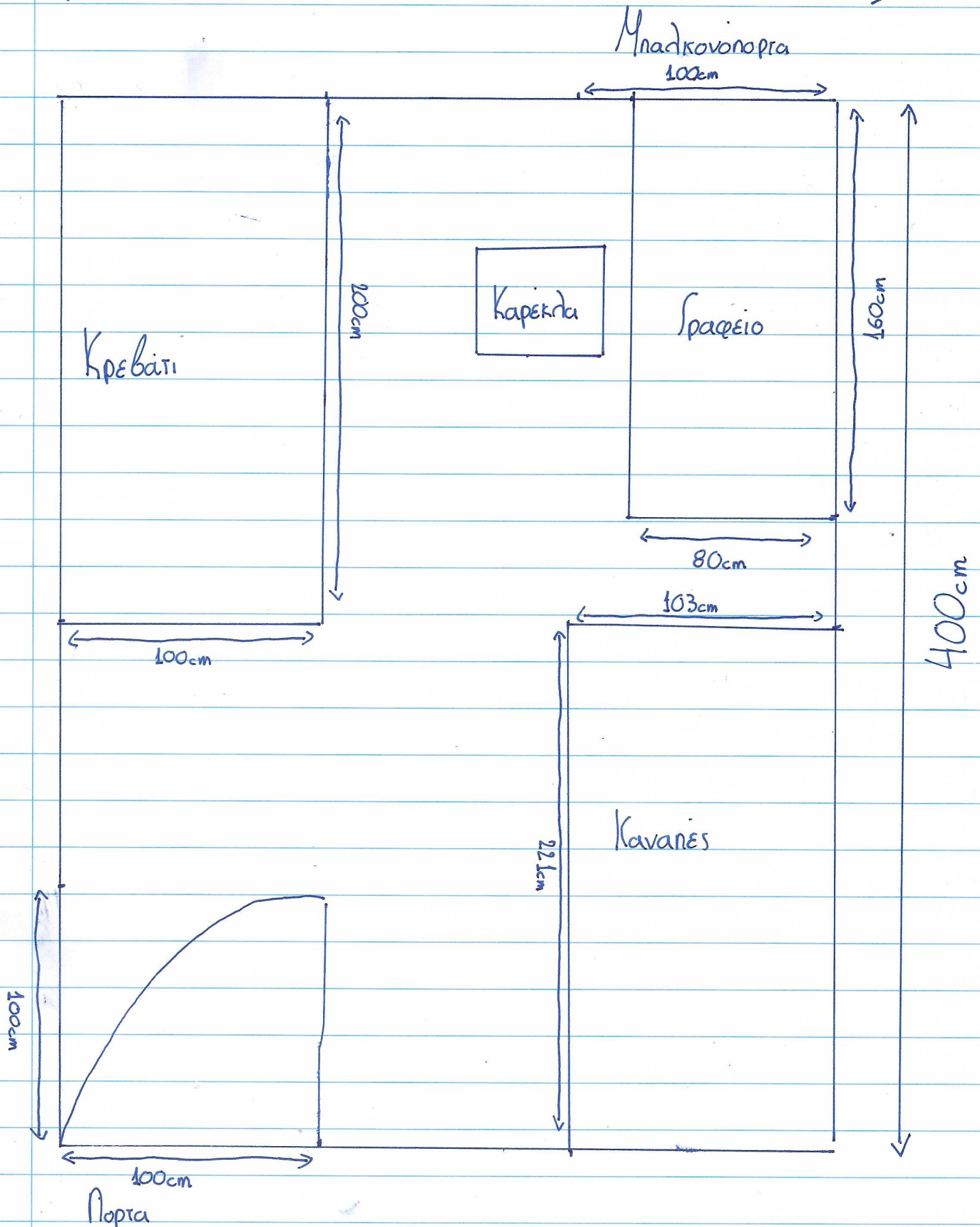
80cm

103cm

100cm

400cm

221cm

Καναπές

100cm

100cm

Πόρτα

Κλίμακα: 1:20

Πρόβλημα 3

1. Μεταβλητές: $t_1$, $t_2$, $t_3$, $t_4$, $t_5$
$t_i$: Χρόνος εναρξης της διαδικασίας $i$

Πεδία:
$D_{t_1}$: { 9:00, 10:00, 11:00 }
$D_{t_2}$: { 9:00, 10:00, 11:00 }
$D_{t_3}$: { 9:00, 10:00, 11:00 }
$D_{t_4}$: { 9:00, 10:00, 11:00 }
$D_{t_5}$: { 9:00, 10:00, 11:00 }

Περιορισμοί:
$C(t_1, t_3)$: $t_1 > t_3$: { [10:00, 9:00], [11:00, 10:00], [11:00, 9:00] }
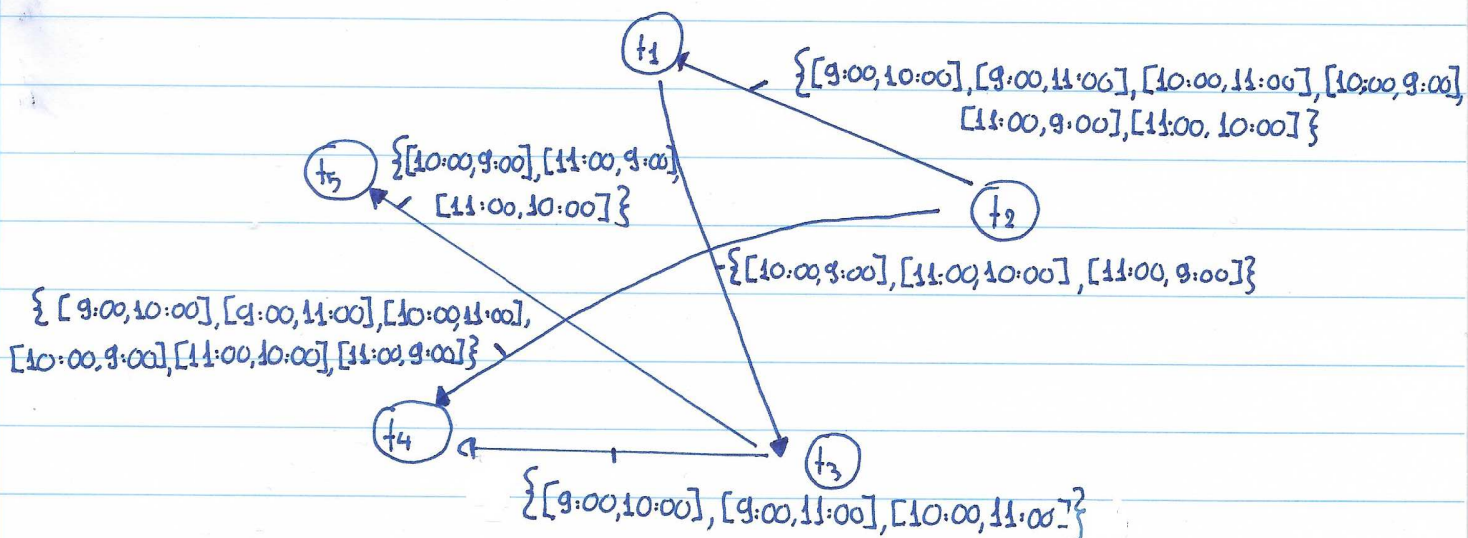$C(t_3, t_4)$: $t_4 > t_3$: { [9:00, 10:00], [9:00, 11:00], [10:00, 11:00] }
$C(t_3, t_5)$: $t_3 > t_5$: { [10:00, 9:00], [11:00, 9:00], [11:00, 10:00] }
$C(t_2, t_1)$: $t_2 \neq t_1$: { [9:00, 10:00], [9:00, 11:00], [10:00, 11:00], [10:00, 9:00], [11:00, 9:00], [11:00, 10:00] }
$C(t_2, t_4)$: $t_2 \neq t_4$: { [9:00, 10:00], [9:00, 11:00], [10:00, 11:00], [10:00, 9:00], [11:00, 10:00], [11:00, 9:00] }
$C(t_4)$: $t_4 \neq 10:00$: { [9:00], [11:00] }

2. 



$t_1$
{ [9:00, 10:00], [9:00, 11:00], [10:00, 11:00], [10:00, 9:00], [11:00, 9:00], [11:00, 10:00] }

$t_5$
{ [10:00, 9:00], [11:00, 9:00], [11:00, 10:00] }

$t_2$
{ [10:00, 9:00], [11:00, 10:00], [11:00, 9:00] }

{ [9:00, 10:00], [9:00, 11:00], [10:00, 11:00], [10:00, 9:00], [11:00, 10:00], [11:00, 9:00] }

$t_4$

$t_3$
{ [9:00, 10:00], [9:00, 11:00], [10:00, 11:00] }

## 3. AC-3 Algorithm

Arcs:

1. $t_1 > t_3$   X
2. $t_3 < t_1$   X
3. $t_4 > t_3$   X
4. $t_3 < t_4$   ✓
5. $t_3 > t_5$   X
6. $t_5 < t_3$   X
7. $t_2 \neq t_1$   X
8. $t_1 \neq t_2$   ✓
9. $t_2 \neq t_4$   ✓
10. $t_4 \neq t_2$   ✓
11. $t_1 > t_3$   X
12. $t_4 > t_3$   ✓
13. $t_3 > t_5$   ✓
14. $t_3 < t_1$   ✓
15. $t_2 \neq t_1$   ✓

Domains:

$D_{t_1}: \{9:00^{1.}, 10:00^{11.}, 11:00\}$
$D_{t_2}: \{9:00, 10:00^{7.}, 11:00^{7.}\}$
$D_{t_3}: \{9:00^{5.}, 10:00, 11:00^{2.}\}$
$D_{t_4}: \{9:00^{3.}, 10:00, 11:00\}$
$D_{t_5}: \{9:00, 10:00^{6.}, 11:00^{6.}\}$

Λυση:

$t_1 = 11:00$

$t_2 = 9:00$

$t_3 = 10:00$

$t_4 = 11:00$

$t_5 = 9:00$

!Σημειωση: Με X μαρκαρωνται οι ακμες που οδηγουν σε απορριψη τιμων