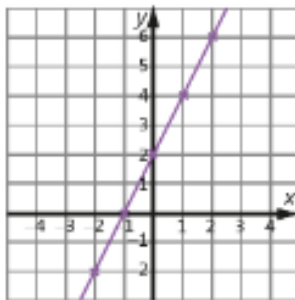


## 15 Suoran piirtäminen

1.



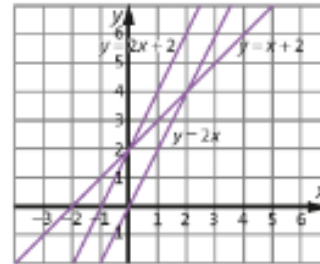
2. a)

$x$	$y = 3x + 1$
-2	-5
-1	-2
0	1
1	4
2	7

b)

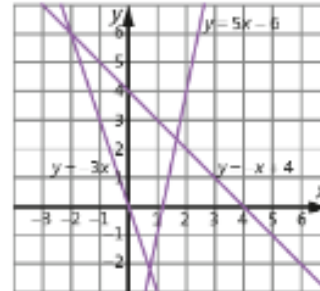
$x$	$y = -2x + 5$
-2	9
-1	7
0	5
1	3
2	1

3.



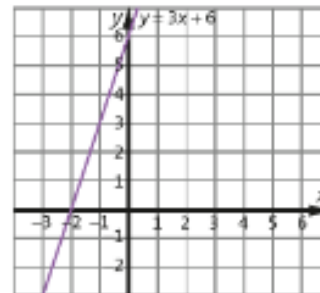
$(-2, 0)$ ,  $(0, 0)$  ja  $(-1, 0)$ .

4.



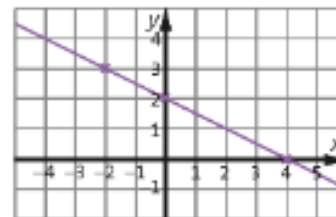
$(0, -6)$ ,  $(0, 0)$  ja  $(0, 4)$ .

5.



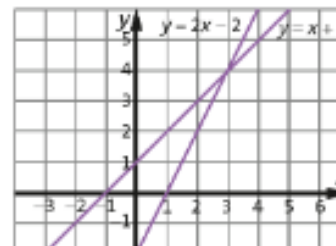
a)  $(-2, 0)$  b)  $(0, 6)$

6.



a)  $(2, 1)$  b)  $(6, -1)$  c)  $(3, 0,5)$  d)  $(1; 1,5)$

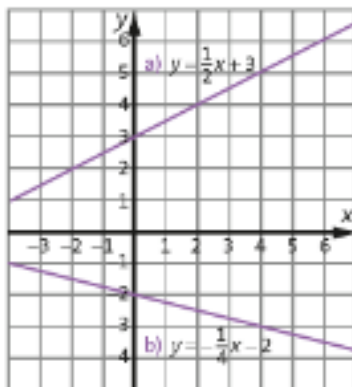
7.



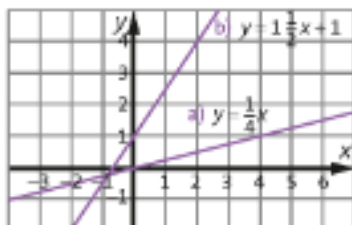
Suorat leikkaavat pisteessä  $(3, 4)$ .

8. a) esim. lukuparit (1, 3), (2, 4) ja (3, 5)  
 b) esim. lukuparit (1, -1), (2, 1) ja (3, 3)

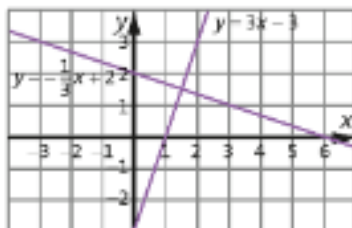
9.



10.

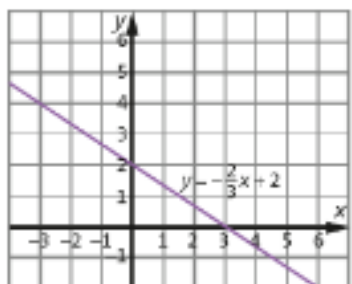


11.



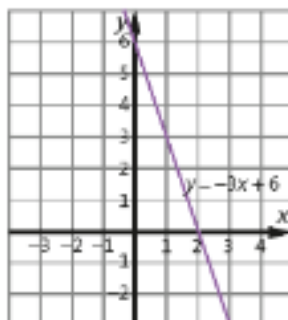
Suorat leikkaavat pisteessä (1,5; 1,5).

12.



Suora leikkaa koordinaattiakselit pisteissä (3, 0) ja (0, 2).

13.

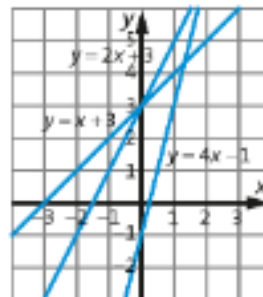


Kolmion pinta-ala on 6 ruutua.

14.

x	y = 2x + 4
0	y = 2 · 0 + 4 = 4
1	y = 2 · 1 + 4 = 6
2	y = 2 · 2 + 4 = 8

15.

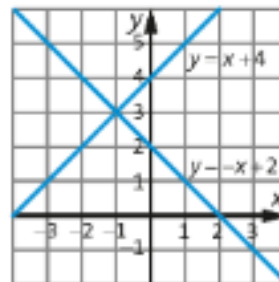


a) pisteessä (0, 3)

b) pisteessä (0, 3)

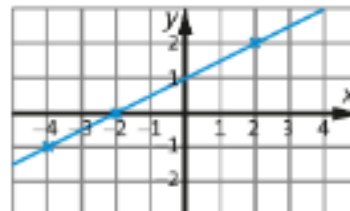
c) pisteessä (0, -1)

16.



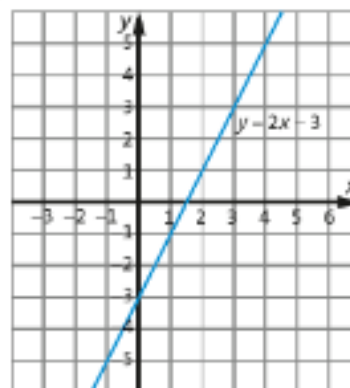
Suorat leikkaavat pisteessä (-1, 3).

17.



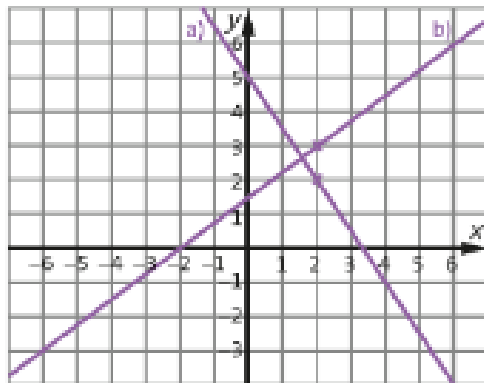
a) (0, 1) b) (4, 3) c) (3; 2,5) d) (1; 1,5)

18.



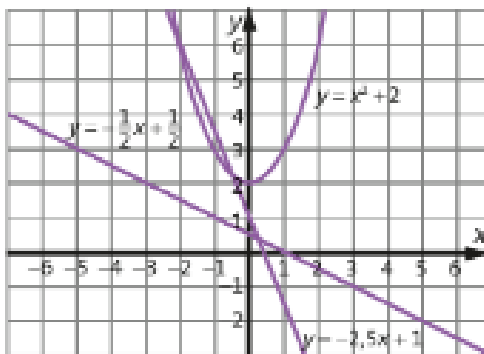
a) (1,5; 0) b) (0, -3) c) y = 5 d) x = -1

19.



20. b ja c

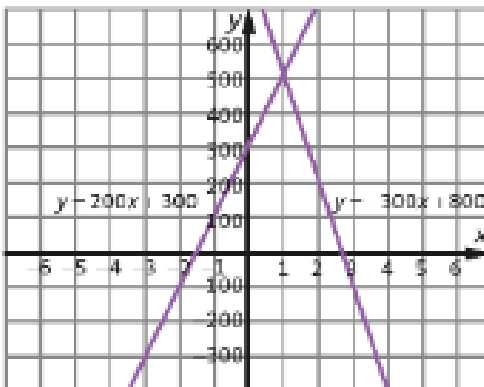
21.



a) on b) on c) ei ole

22. a) ei ole b) on c) ei ole d) on

23.



Leikkauspiste on (1, 500).

PULMA a) yksi ympyrä

b) kolme ympyrää