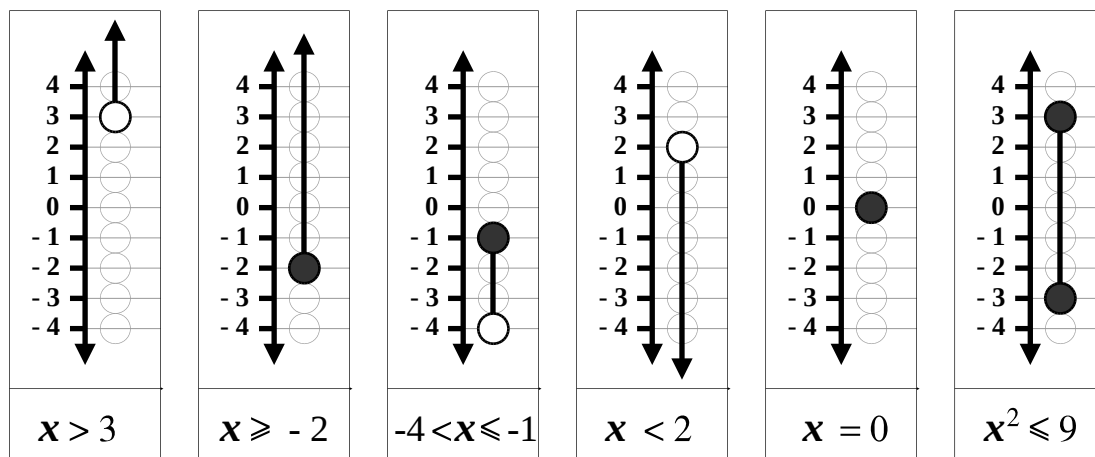


10.2 Answers

Answer 1

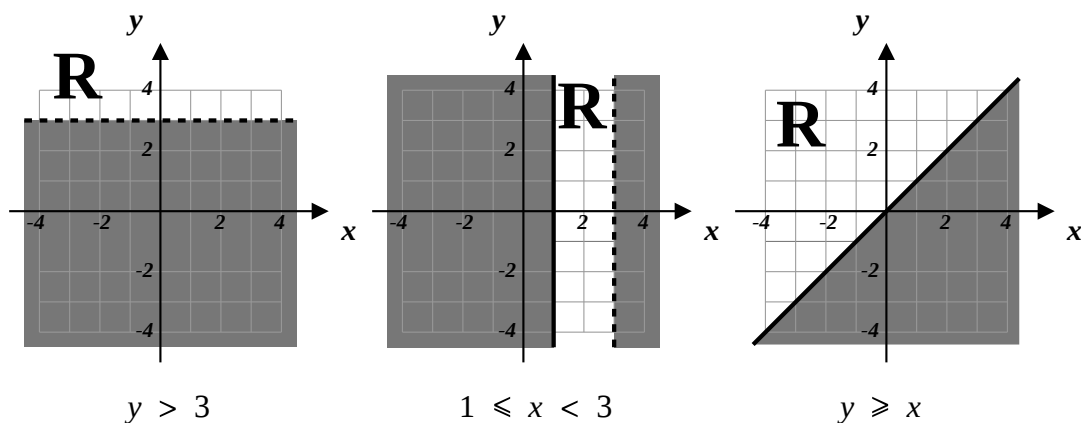


Answer 2

- (a) $x < 4$
 (c) $x \geq 16$
 (e) $x > 8$

- (b) $x < 11$
 (d) $x \leq 0.25$
 (f) $x < 77$

Answer 3



Answer 4

- (i) 233, 235, 237, 239
 (ii) 9, 16, 25
 (iii) 4, 5

Answer 5

FALSE The first century was $0 \leq y < 100$ and so on...

Answer 6

A : 2, 3, 5, 7, 11, 13, 17, 19, 23

9

B :

10

So (b) $A < B$

Answer 7

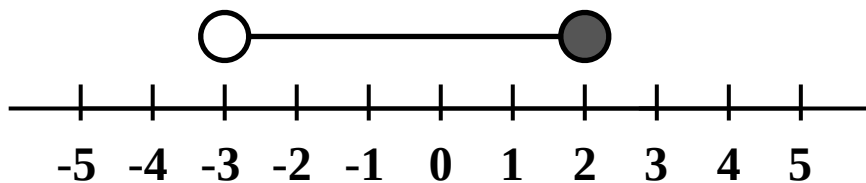
$x > 3$

$y \leq 2.5$

$-1 \leq y < 3$

Answer 8

(i) $-3 < x \leq 2$

(ii)**Answer 9**

$x < 11$

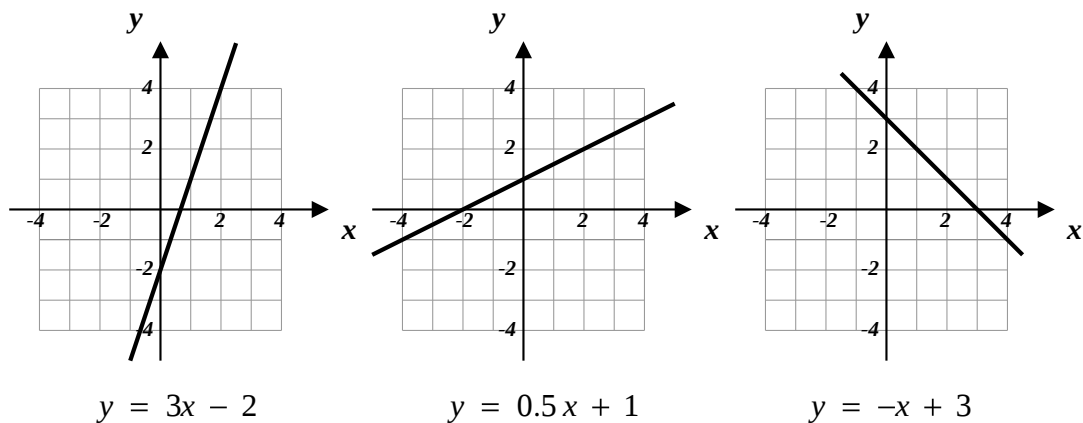
Answer 10

(i) $x < 6$

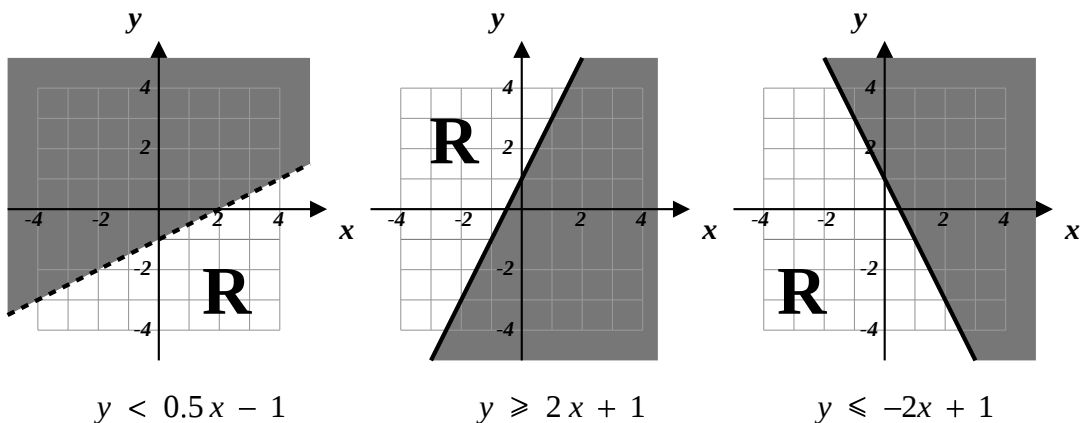
(ii) $x > 15$

(iii) $x > 7$

(iv) $5 < x < 194$

Answer 11 $-4, -3, -2, -1$ **Answer 12**

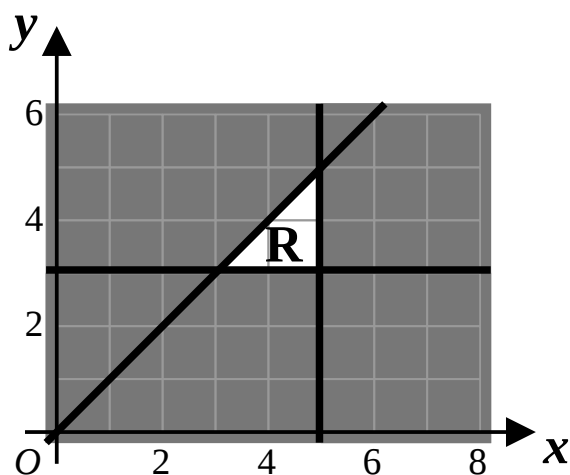
Answer 13



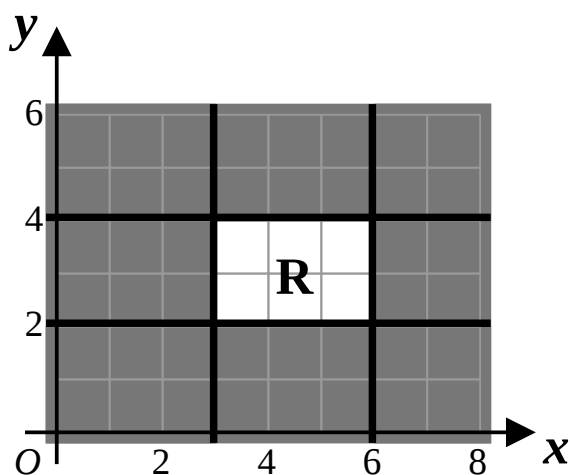
Answer 14

$$1, \frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{1}{16}, \dots \quad 0 < \left(\frac{1}{2}\right)^x \leq 1$$

Answer 15



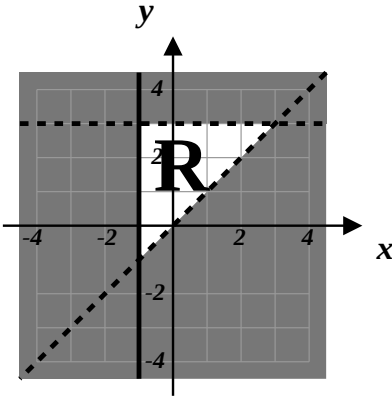
Answer 16



Answer 17

$x \leq 4$ $y \geq -1$ $y \leq \frac{1}{2}x + 1$

Answer 18



Answer 19

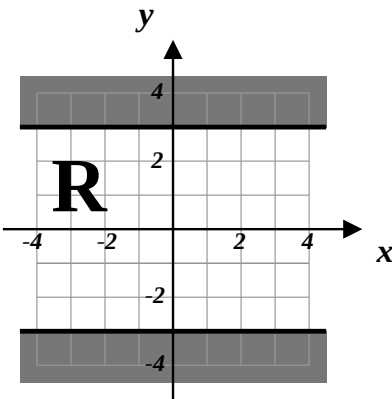
(a)

x	0	1	2	3	4	5	6	7	8	9	10
x^2	0	1	4	9	16	25	36	49	64	81	100
$-9x$	0	-9	-18	-27	-36	-45	-54	-63	-72	-81	-90
$+14$	14	14	14	14	14	14	14	14	14	14	14
y	14	6	0	-4	-6	-6	-4	0	6	14	24

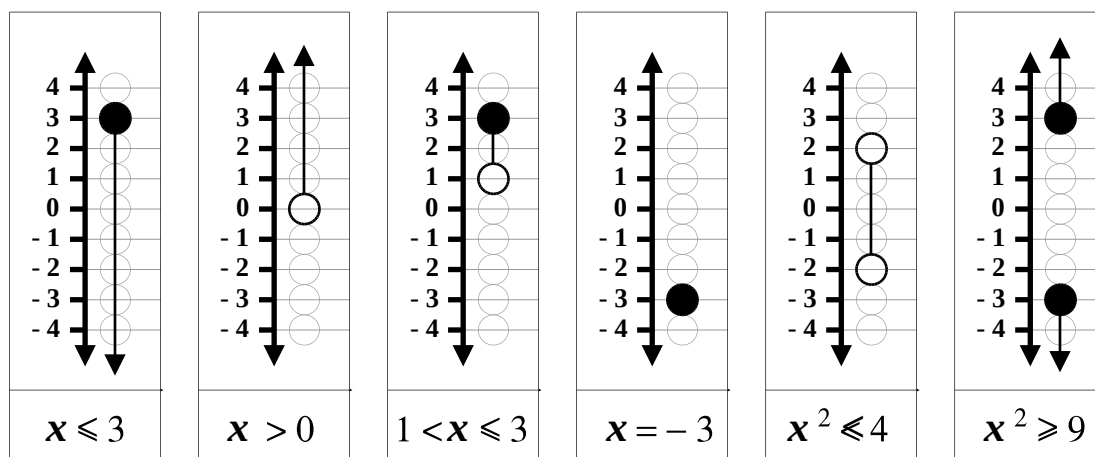
(b) Quadratic curve through (2, 0) and (7, 0)

(c) $2 \leq x \leq 7$

Answer 20



Answer 21



Answer 22

- (i) $0 < x - 156 \times 2 < 100$
(ii) $312 \leq x < 412$