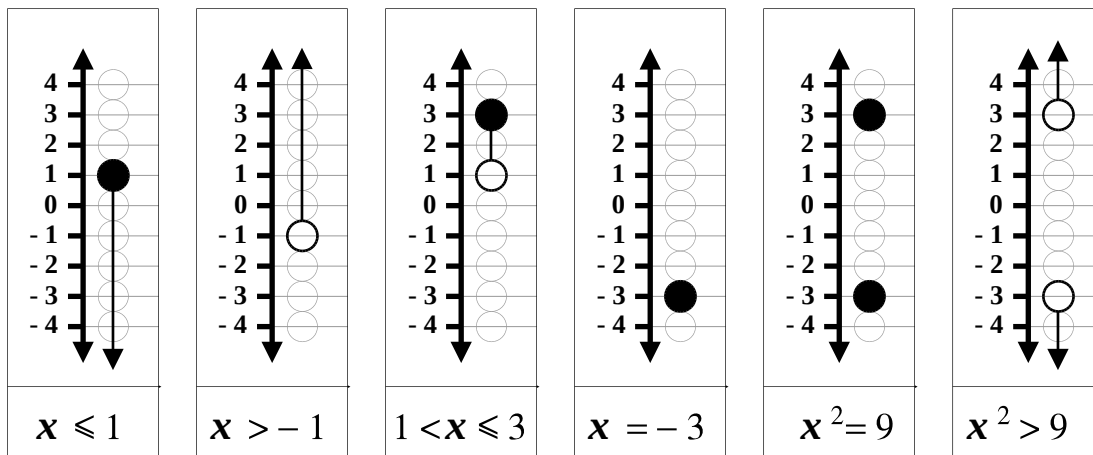


9.2 Answers

Answer 1



Answer 2

- | | |
|--------------------|-----------------|
| (i) $x < 7$ | (ii) $x > -1$ |
| (iii) $x \geq 0.5$ | (iv) $x \geq 3$ |
| (v) $x > 11$ | (vi) $x < 35$ |

Answer 3

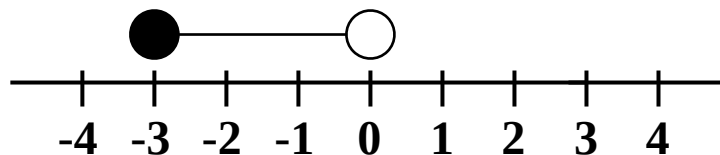
- (i) $x \in \{ 42, 44, 46 \}$
 (ii) $x \in \{ 49, 64, 81 \}$
 (iii) $x \in \{ 4, 5, 6 \}$

Answer 4

True

Answer 5

- (i) $-3 \leq x < 0$
 (ii)



Answer 6

$x \geq 27$

Answer 7

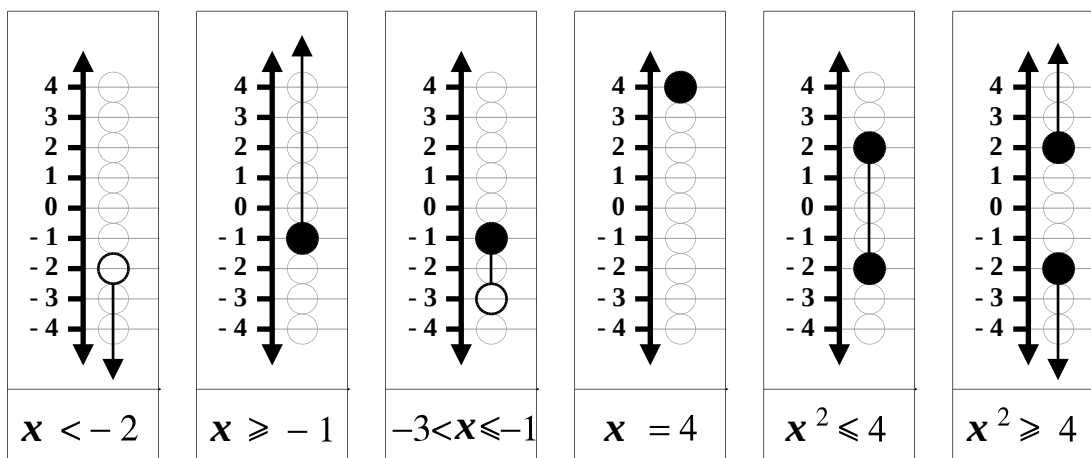
- | | |
|----------------------|----------------------|
| (i) $18 < x \leq 21$ | (ii) $x < 12$ |
| (iii) $x > 7$ | (iv) $5 \leq x < 14$ |

Answer 8

$$x \in \{ -5, -4, -3, -2, -1 \}$$

Answer 9**(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
$-10x$	0	-10	-20	-30	-40	-50	-60	-70	-80	-90	-100
$+21$	21	21	21	21	21	21	21	21	21	21	21
y	21	12	5	0	-3	-4	-3	0	5	12	21

(b) Quadratic curve through (3, 0) and (7, 0)**(c)** $3 \leq x \leq 7$ **Answer 10****Answer 11**

$$2 < x \leq 11$$

Answer 12**(a)** (i) $P \leq 38$ or $0 \leq P \leq 38$ (ii) $P \geq 24$ **(b)** $24 \leq P \leq 38$