

Inequalities and their Graphs

Is each number a solution to $x < 7$?

a. 9 *No*

b. -1 *Yes*

c. $14/2$ *No, =*

*greater than
or equal to*

\geq

\leq

greater than

$>$

$<$

You try: Is each number a solution to $x \geq -4.1$

a. -5

b. -4.1

c. 8

d. 0

No

Yes

Yes

Yes

Is each number a solution to $2 - 5x > 13$?

a. 3 $2 - 5(3) > 13$
No $2 - 15 > 13$
 $-13 \neq 13$

b. -4 $2 - 5(-4) > 13$
Yes $22 > 13$

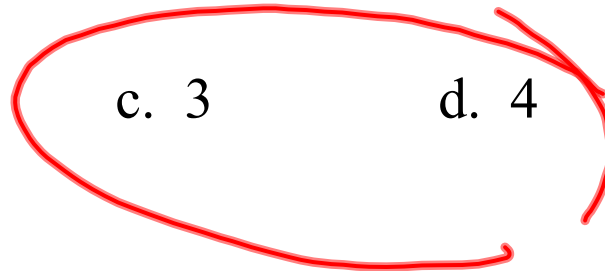
You try: Is each number a solution to $6x - 3 > 10$?

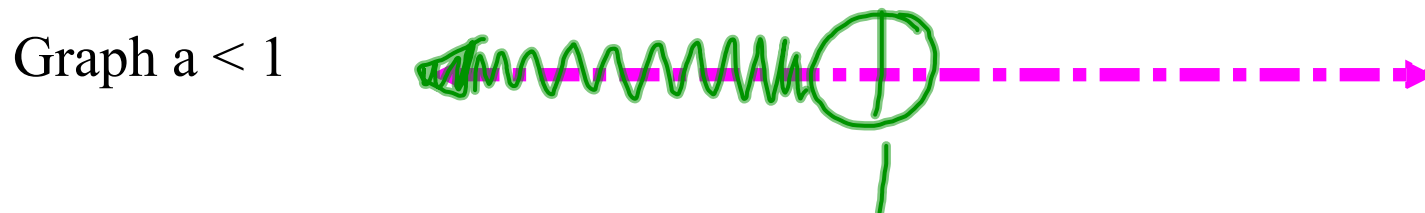
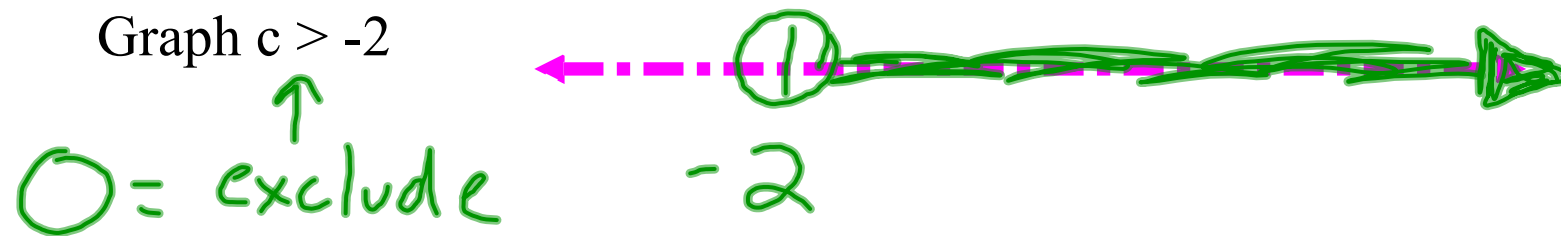
a. 1

b. 2

c. 3

d. 4





You try:

a. Graph $n \geq -3$

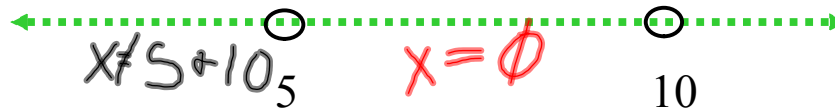
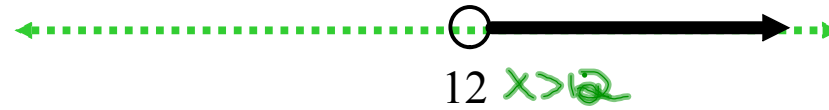
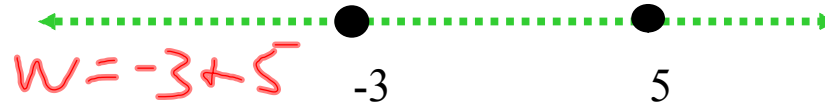


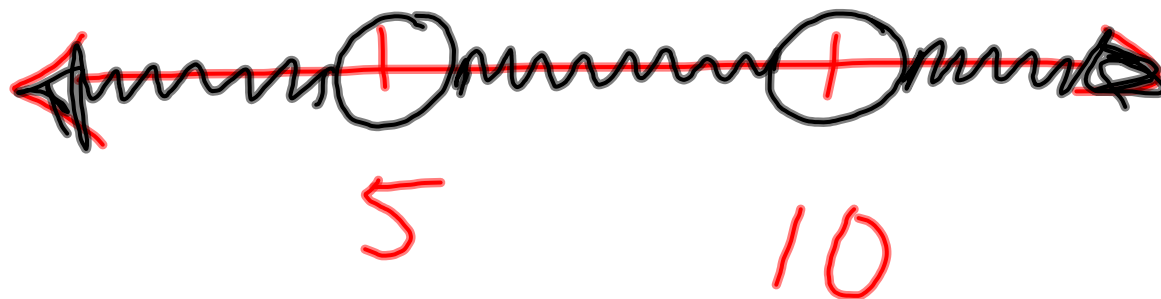
b. Graph $2 > p$



Chapter 3: Section 1

Name the graph of each:





$X = \mathbb{R}$ except 5 & 10



all \mathbb{R} between 3 + 7
excluding 3 + 7