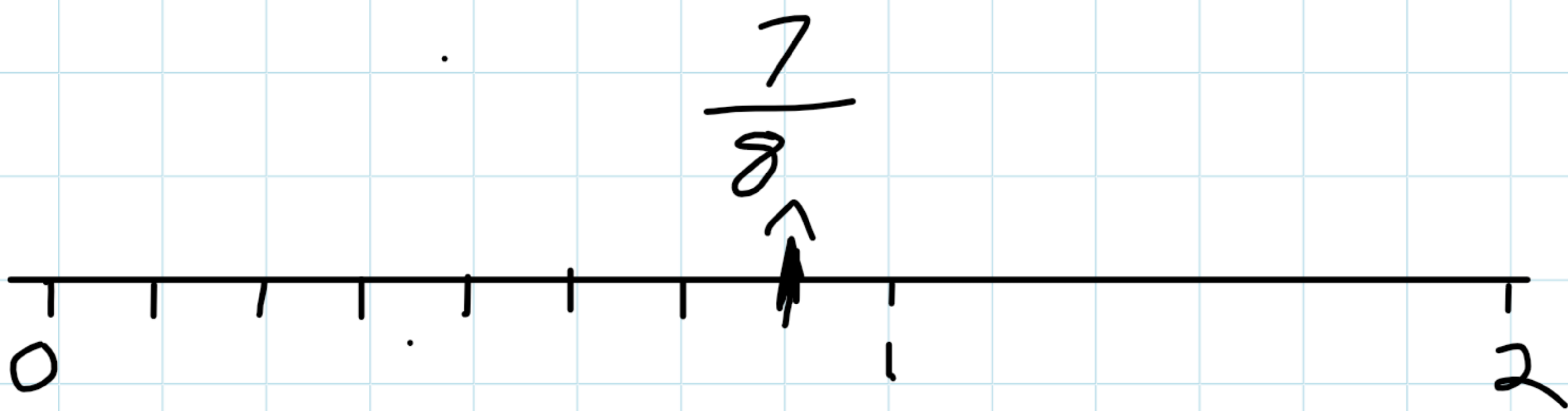


Exercise 1.1

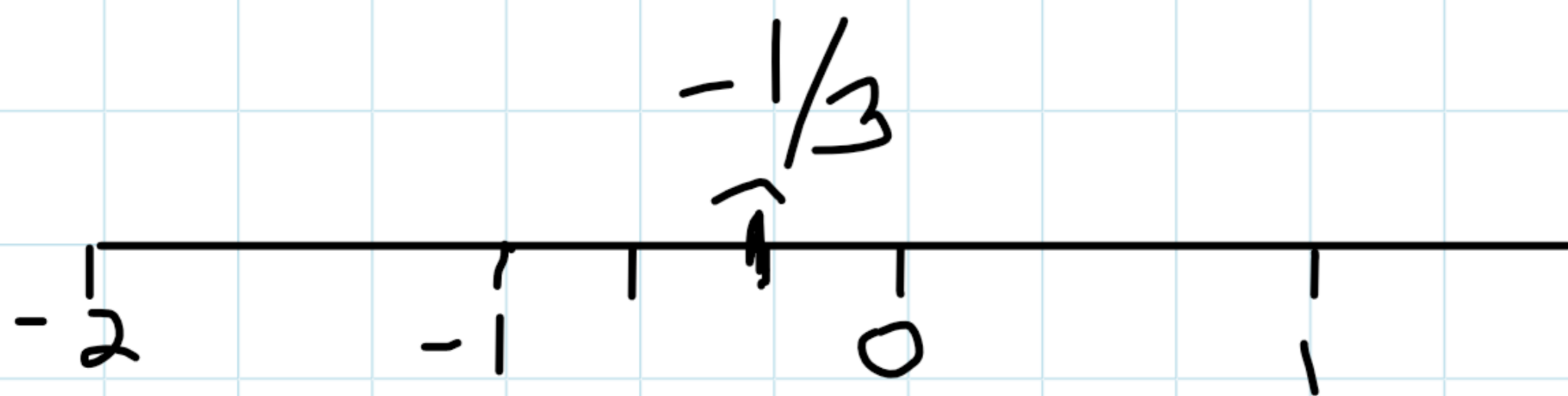
QNO 1

Represent each number on number line

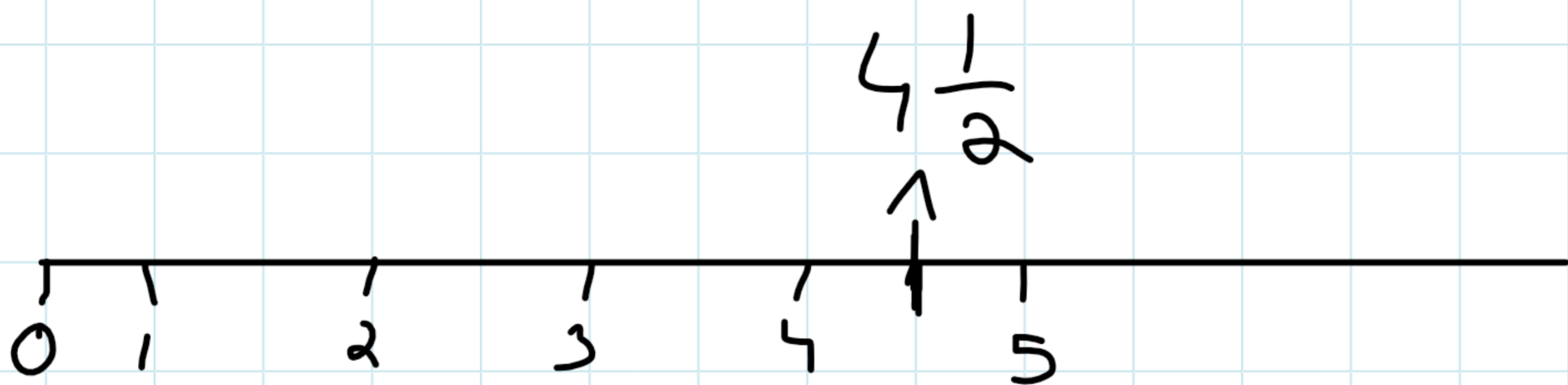
(i) $\frac{7}{8} = \underline{0.875}$



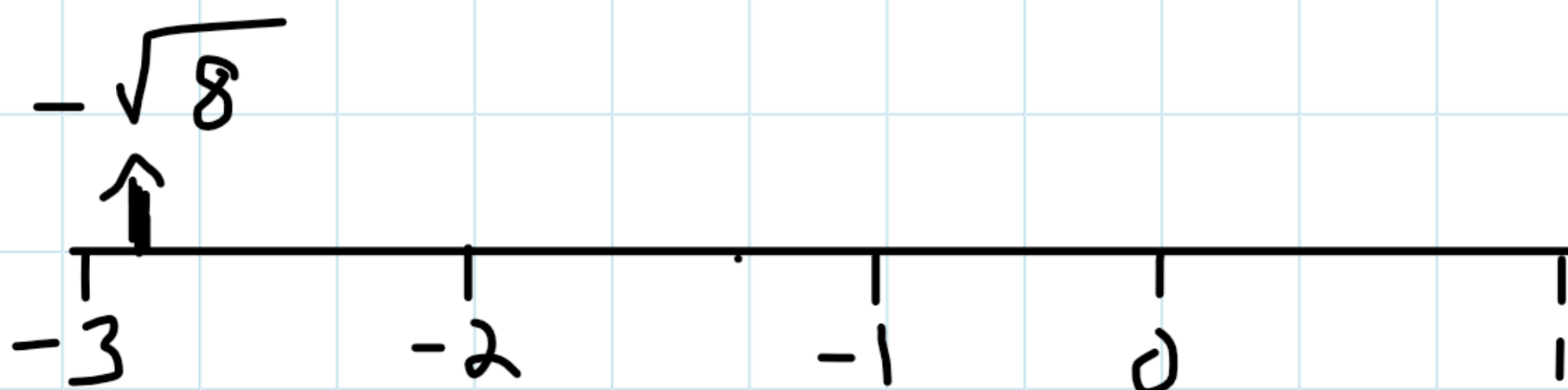
(ii) $-\frac{1}{3}$



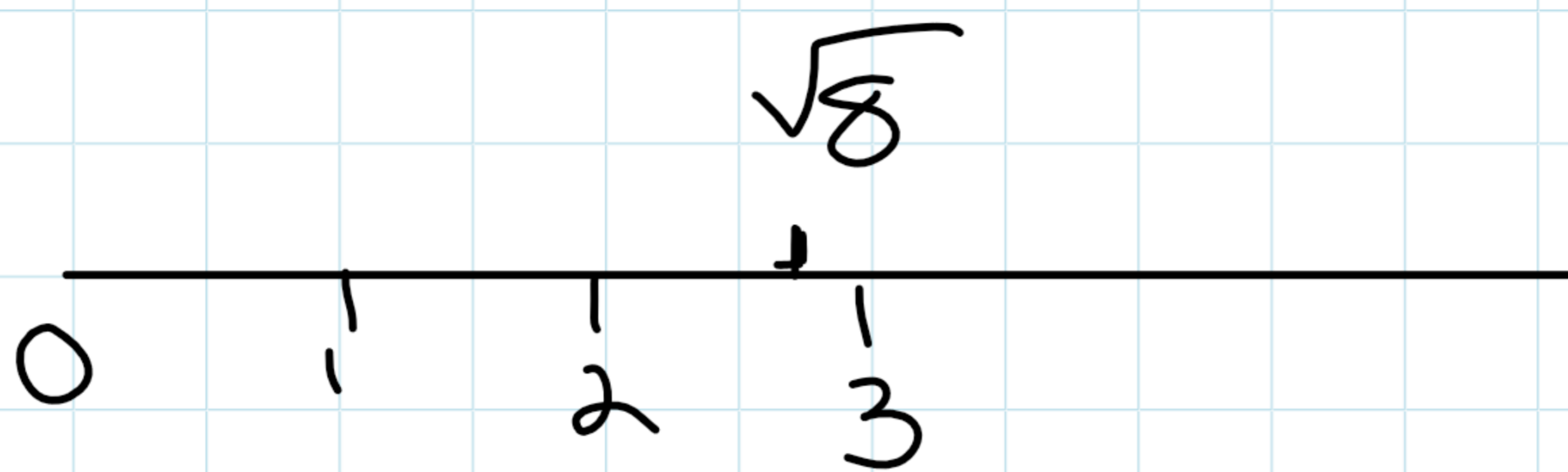
(iii) $4\frac{1}{2}$



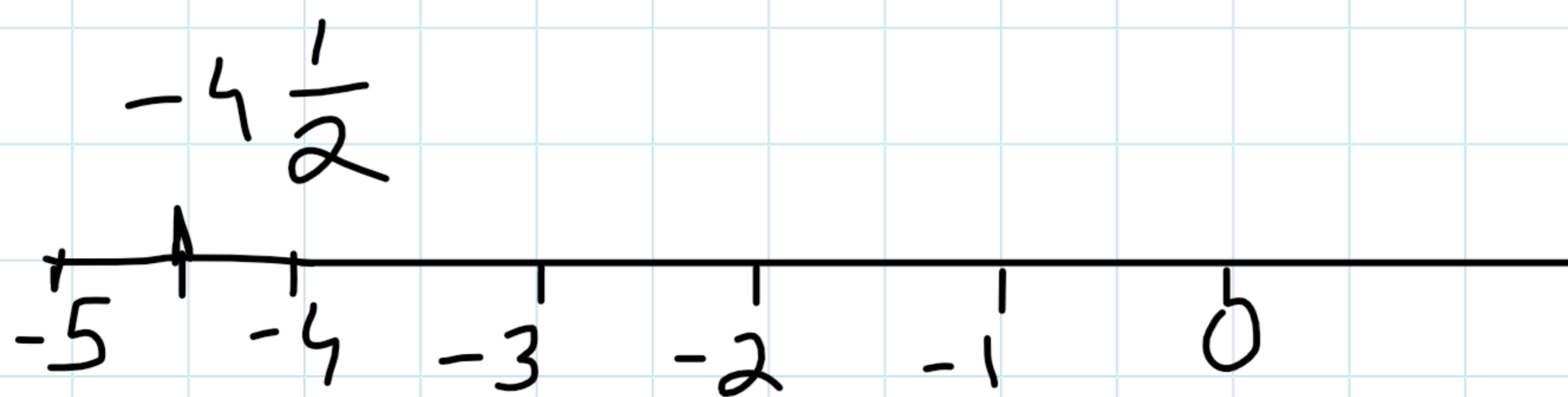
(iv) $-\sqrt{8} \Rightarrow -2.828$



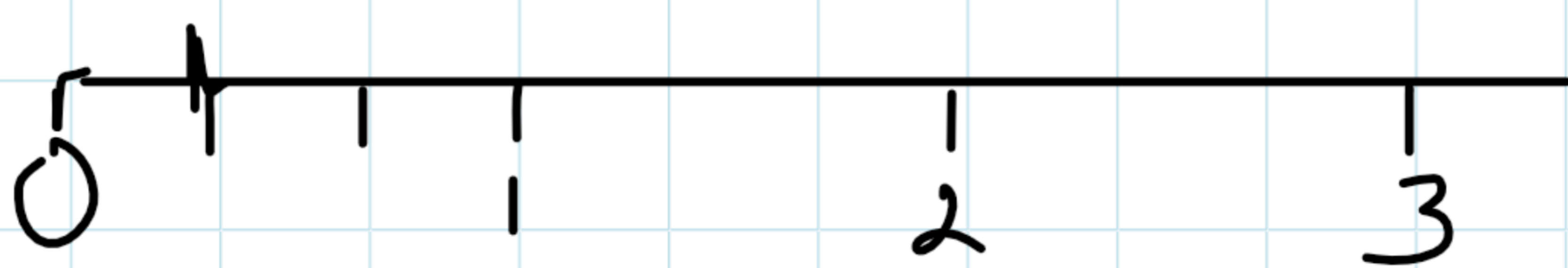
$$(v) \sqrt{8} \Rightarrow 2.828$$



$$(vi) -4\frac{1}{2} \Rightarrow$$



$$(vii) \frac{1}{3}$$



$$(viii)$$

$$-\frac{7}{8}$$



Question Number 2

Identify the properties that \odot justifies.

$$(i) 1 \times (y-2) = y-2$$

→ Multiplicative Identity

$$(ii) (0.2)5 = 1$$

→ Multiplicative Property

$$(iii) (x+2)+y = y+(x+2)$$

→ Commutative property w.r.t. Addition

$$(iv) -(3b)+3b=0$$

Inverse property w.r.t. " $+$ "

$$(v) (x+5)-1 = x+(5-1)$$

→ Associative property

$$(vi) -3(x-y) = -6+3y$$

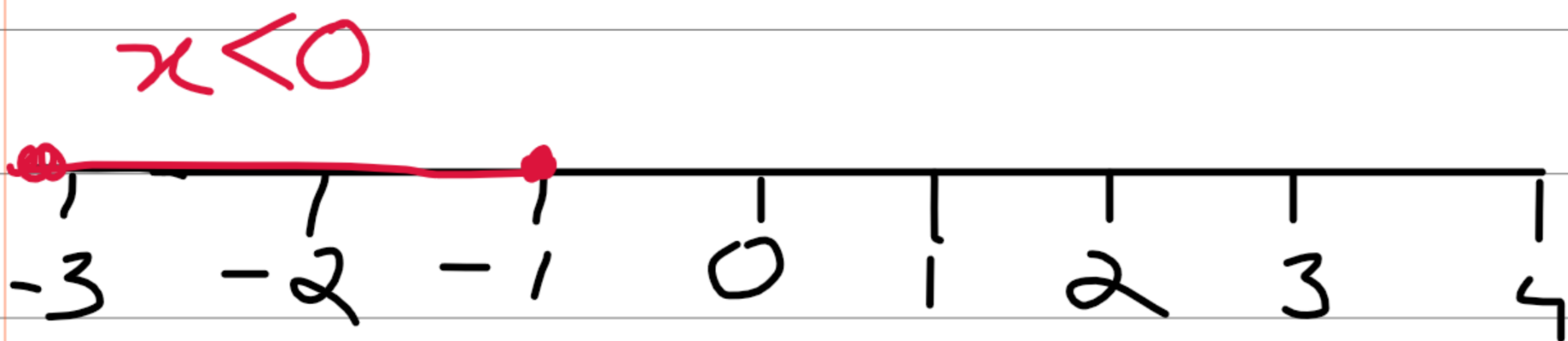
→ Distributive Property

Question No. 3

Represent each number on number line

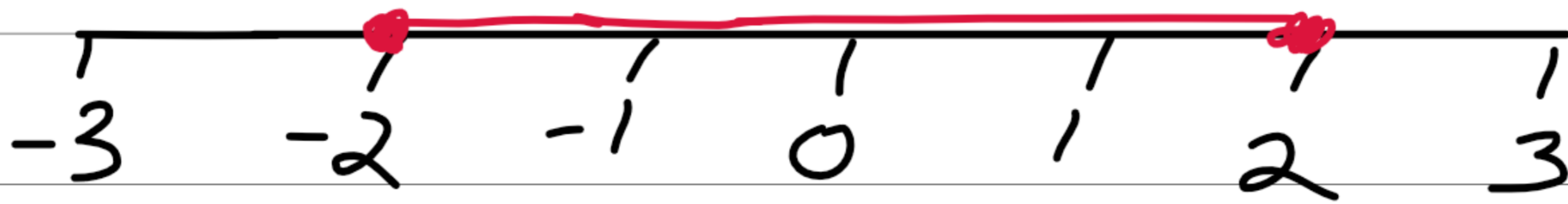
(i)

$$x < 0$$



(ii) $-3 < x < 3$

$$-3 < x < 3$$

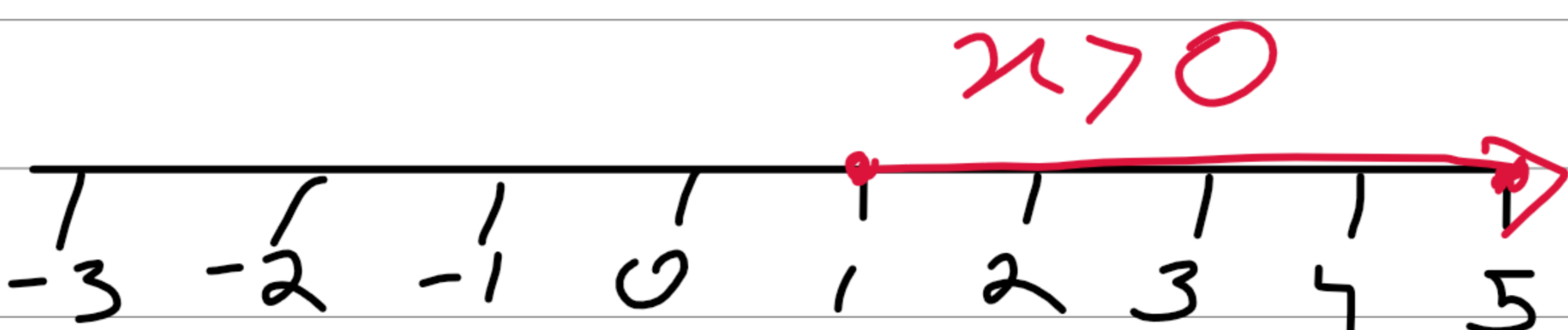


(iii) $x \geq -8$

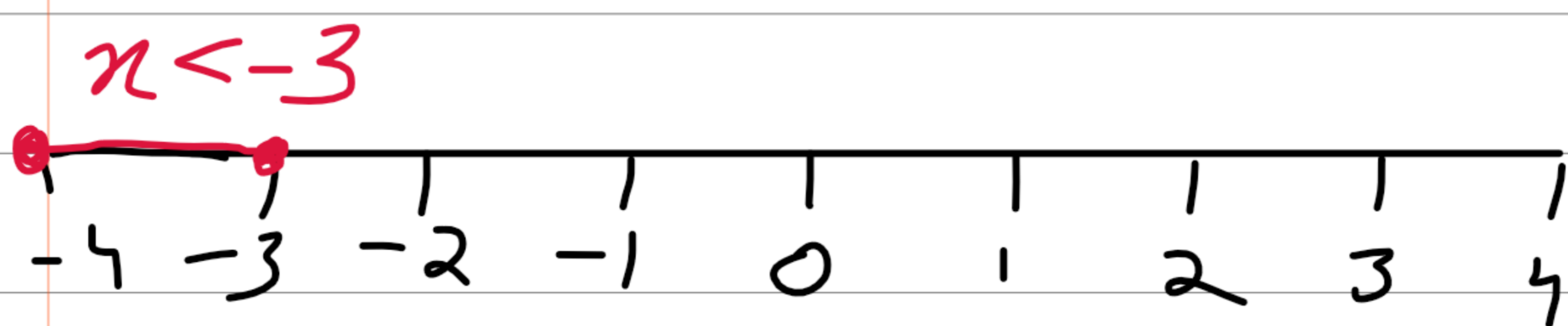
$$x \geq -8$$



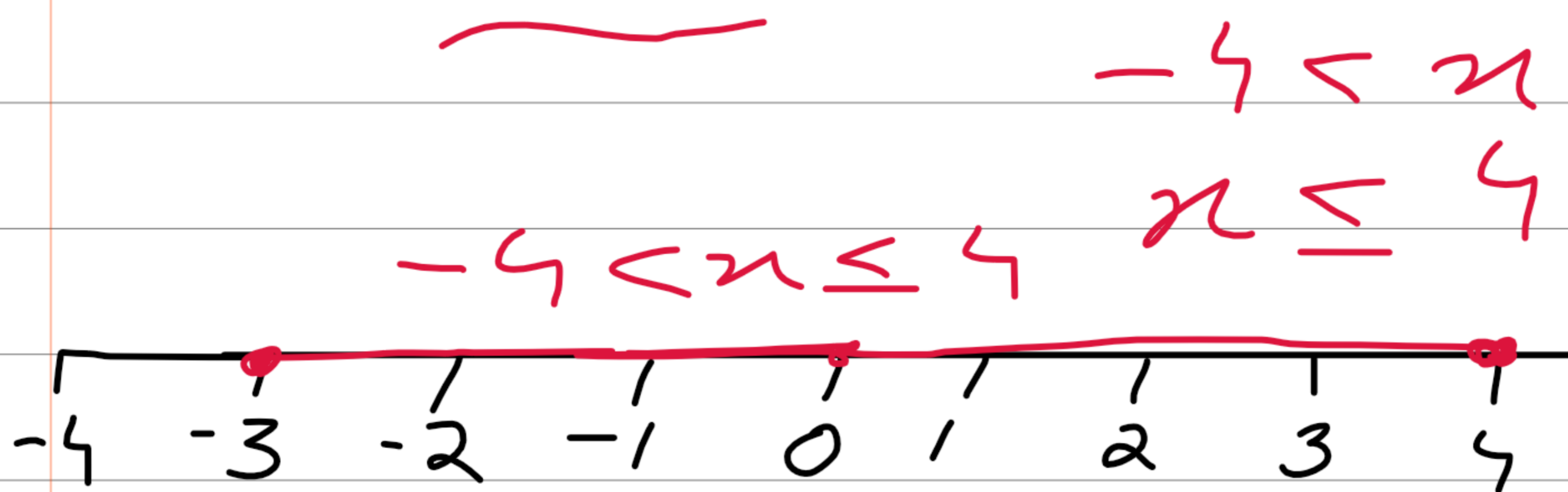
(iv) $x > 0$



$$(v) x < -3$$



$$(vi) -4 < x \leq 4$$



Question No. 4

Identify the properties of equality and inequality of real numbers that justifies the statement.

(i) $9x = 9x$

Reflexive Property

(ii) If $x+2=y$ and $y=2x-3$ then $x+2=2x-3$

Transitive property

(iii) If $2x+3=y$, then $y=2x+3$

Symmetric Property

(iv) if $3 < 4$ then $-3 > -4$

Multiplicative Property

(v) If $2y+2w=p$ and $p=50$ then $2x+2y=50$

Transitive Property

(vi) If $x + 4 > y + 4$, then $x > y$

Cancellation property
wrt "+"

(vii) If $2 < 5$ and $5 < 9$, then $2 < 9$

Transitive property