

14. Absolute Value

What is Absolute Value?

Definition

The absolute value of a number is its distance from **0**

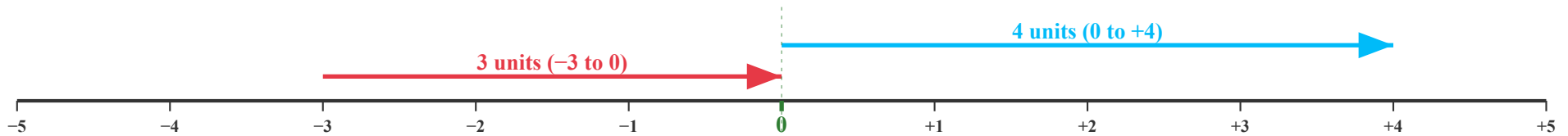
Written as $|x|$, read as "the absolute value of x "

Example: $|-3| = 3$, because the distance from -3 to 0 is 3 units

$|+4| = 4$, because the distance from $+4$ to 0 is 4 units

a) Example

$$|-3| = \square \quad |+4| = \square$$



b)

$$|-5| = \square \quad |+2| = \square$$

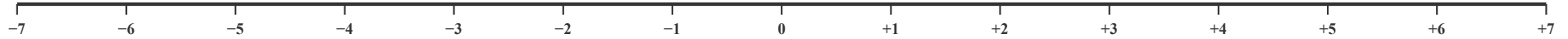


Which has a greater absolute value?

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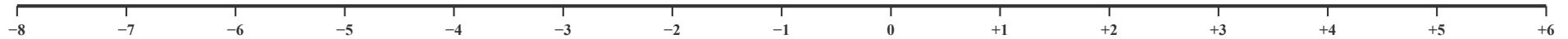
c)

$$|-6| = \square \quad |0| = \square \quad |+3| = \square$$



d)

$$-7 \square +2 \quad |-7| \square |+2|$$



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e)

$$-9 \square +4 \quad |-9| \square |+4|$$

$$-5 \square -1 \quad |-5| \square |-1|$$

$$+6 \square -3 \quad |+6| \square |-3|$$

f)

Which is closest to 0? **-8, +5, -2, 0, +7**

Answer:

Which is farthest from 0?