

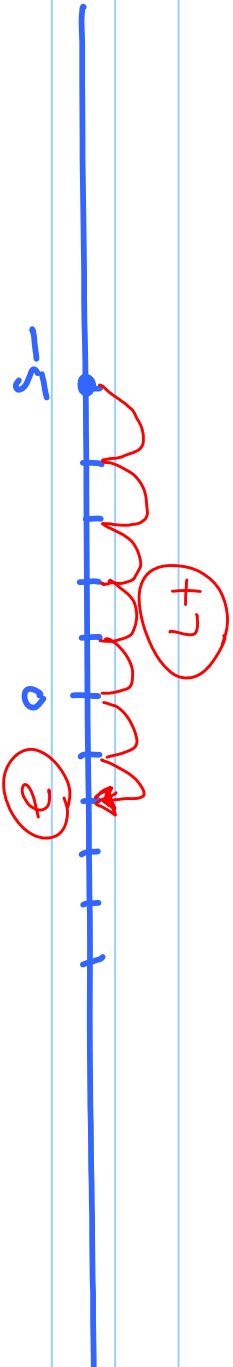
# Set 2.1a OPERATIONS WITH INTEGERS p. 38

p. 41

## ADDING/SUBTRACTING INTEGERS

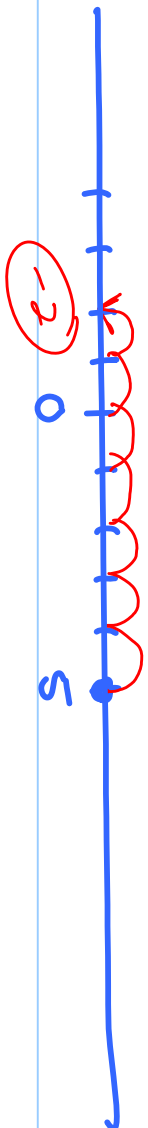
ex)  $-5 + 7$  → MOVE RIGHT (TOWARDS THE POSITIVES)

STARTING POSITION



ex)  $5 - 7$  → 7 SPACES

STARTING POSITION → MOVE LEFT (TOWARDS THE NEGATIVES)



SAME AS

REMEMBER: IF + (-) → -

"ADDING A NEGATIVE"

- (+) → -

+ (+) → +

- (-) → +

\* TWO SIGNS "SIDE BY SIDE" THAT ARE THE SAME,  
ARE ADDITION

\* TWO SIGNS "SAME BY SAME" THAT ARE DIFFERENT!

ARE SUBTRACTION

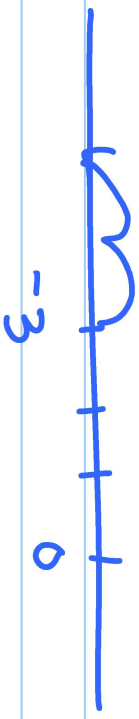
$$\text{ex) } 4 - (-3)$$

$$4 + 3$$

$$= 7$$

$$\text{ex) } -3 + (-2)$$

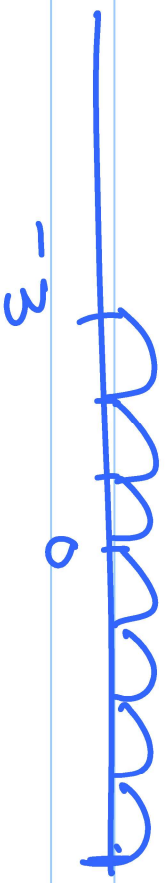
$$-3 - 2 = -5$$



$$\text{ex) } -3 - (-7)$$

$$-3 + 7$$

$$= 4$$



SHORTCUT: IF THE SIGNS OF THE INTEGERS

ARE THE SAME, ADD THE NUMBERS

& KEEP THE SIGN

ex)  $-4 - 11 = -15$

$$-4 + (-11) = -15$$

IF THE SIGNS OF THE INTEGERS

ARE DIFFERENT, SUBTRACT THE NUMBERS

& DECIDE ON SIGN.

(ANSWER GETS THE SIGN OF WHAT YOU HAD MORE OF TO BEGIN WITH)

$$\text{ex) } -5 + 12 = 12$$

$$\frac{-5}{+7}$$

+7

DECIDE ON SIGN

SUBTRACT

$$\text{ex) } 8 - 14 = 14$$

$$\frac{-8}{-6}$$

$$\text{ex) } -10 + (+12) = +2$$