February 3, 2015

① $-5 = (-1)\cdot(5) = -5$

② $-(5) = (-1)\cdot(5) = -5$

③ $-(-5) = (-1)\cdot(-5)$
$= (-1)\cdot(-1)\cdot(5)$
$= 5$

a negative times a negative is a positive.

Feb 3-9:03 AM

④ $|5| = 5$

⑤ $|-5| = 5$

⑥ $-|5| = (-1)\cdot|5|$
$= (-1)\cdot 5 = -5$

⑦ $-|-5| = (-1)\cdot 5 = -5$

Feb 3-9:12 AM

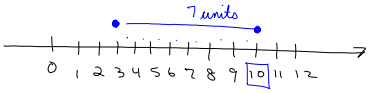
Do 2.1, 2.2, 2.3

Feb 3-9:14 AM

2.2 addition

$3 + |-7| =$

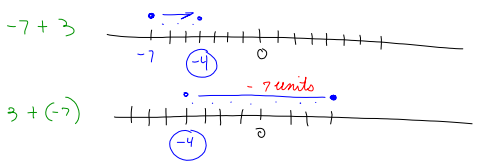
$3 + 7 = 10$



Feb 3-9:16 AM

$-7 + 3 = 3 + (-7)$

$a + b = b + a$ Comm.



Feb 3-9:20 AM

2.2 #72)

If $x < 0$ & $y < 0$,
then $|x+y| = |x| + |y|$

T or F ?

$x = -4$, $y = -3$ } $|(-4) + (-3)| = |-4| + |-3|$

$|-7| = 4 + 3$

$7 = 7$ ✓

Feb 3-9:24 AM

2.1 # 73

If $|x| < |y|$, $x < y$

T or F ?

① $x = 4$, $y = -6$ } $|4| < |-6|$

$4 < 6$ (T)

② $x = 7$, $y = 10$ } $|7| < |10|$

$7 < 10$ (T)

Feb 3-9:29 AM

2.1 #75

For every integer x,

$|-x| = |x|$

T or F

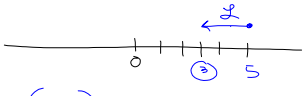
$x = 15$

$|-15| = |15|$

Feb 3-9:34 AM

2.3 Subtraction

$5 - 2 = 5 + (-2)$



$(-2) + 5 = 5 + (-2)$

Feb 3-9:37 AM

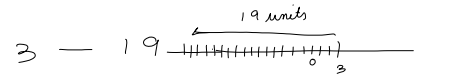
$5 - 2 = 3$

$5 - 2 \neq 2 - 5$

$5 - 2 = 5 + (-2) = (-2) + 5 = 3$

Commutative Law!

Feb 3-9:40 AM



$|3|$ $|-19|$

$3 < 19$ (T) → $19 - 3 = 16$

$= -16$?

Feb 3-9:42 AM