Chapter #2 Rational Numbers

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2.1 Ordering/Comparing & Adding/Subtracting

Rational Numbers

- any number that can be written as a fraction where the numerator and denominator are both integers
  - # denominator can't be zero
- whole numbers
- decimals
  - ↳ terminate (end)
  - ↳ repeat

ex -4 , 3.5 , $-\frac{1}{2}$, $1\frac{3}{4}$, 0 , $0.\overline{3}$

Irrational Number

- a decimal number that neither terminates or repeats

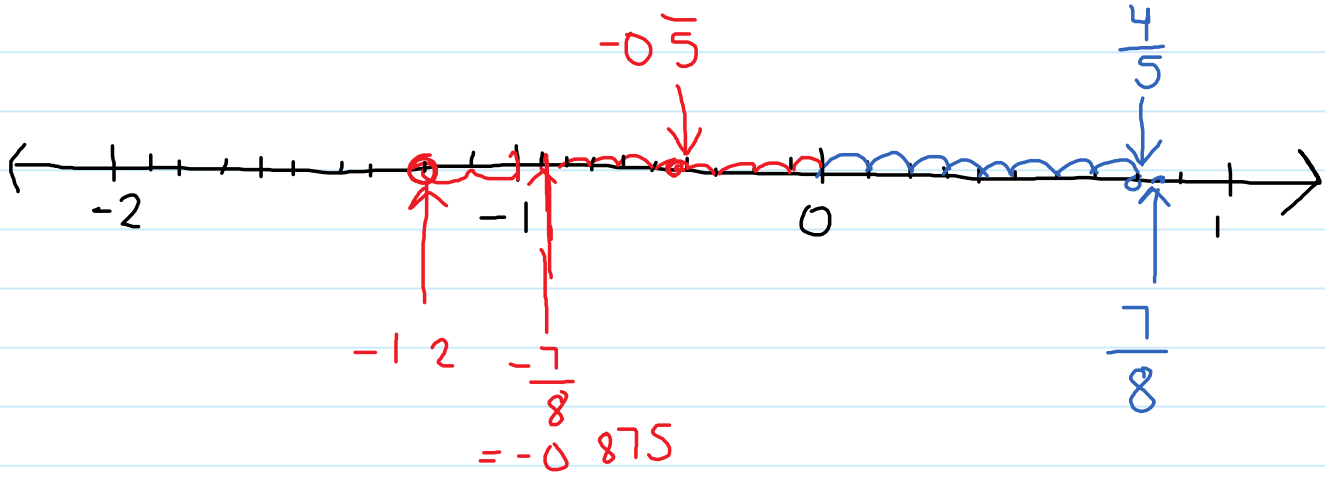
ex. $\pi = 3.14596\ldots$

$-\sqrt{2} = 1.41213\ldots$

Ex #1 compare / order the following rational numbers in ascending order and place on a number line

-1.2 , ~~$\frac{4}{5}$~~ , $\frac{7}{8}$, $-0.5\overline{}$, $-\frac{7}{8}$

0.8 0.875 -0.875



Adding/subtracting/multiplying/Dividing

Ex 2

(a) $-14+6$

$= -8$

(b) $-5+4+(-8)$

$= -1-8$

$= -9$

(c) $-9+(-23)+14+5$

$= -9-23+14+5$

$= -32+19$

$= -13$

(d) $-9+(-18)+7+(-15)+12+9$

$= -14$

(e) $3\times 8-4+6\times 1-(4-2)$

$= 23$

(f) $\dfrac{3(6-4)+15}{8-1}$

$= 3$

(g) $\dfrac{7\times 5-(3+2)}{(20-2\times 3)-2}$

$= 2$

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