3.4 Rational Numbers Operations

Bedmas - rational numbers

p190 determining the sign of a rational number
think,do,discuss #1,2

1d) $\dfrac{-7}{-10} = \dfrac{3}{10}$

$(-7) + (-1) = (-8)$

a negative # divided by a negative # is a positive #

Ex.1

$$-2\tfrac{1}{4} \times \left(1\tfrac{3}{4} - 5\tfrac{1}{2}\right)$$

$$= -\tfrac{9}{4} \times \left(\tfrac{7}{4} - \tfrac{11}{2}^{\times 2}\right)$$

$$= -\tfrac{9}{4} \times \left(\tfrac{7}{4} - \tfrac{22}{4}\right)$$

$$= -\tfrac{9}{4} \times \left(\frac{7-22}{4}\right)$$

$$= -\tfrac{9}{4} \times \left(\frac{-15}{4}\right)$$

$$= \frac{+135}{16}$$

S1
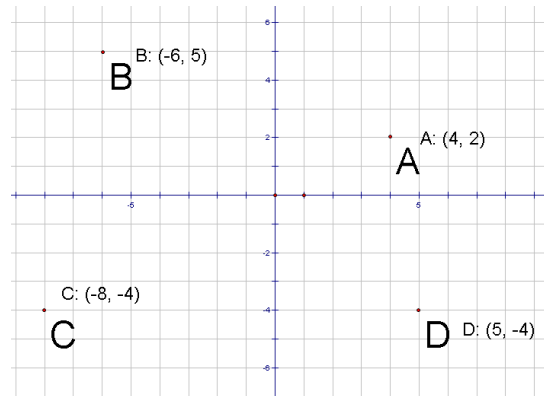Switch to Improper Fractions

S2
LCD?

S3
Subtract

S4
multiply

Ch3-2 Asmt

step 1: plot 1 point in each quadrant of the cartesian plane.

step 2: show the coordinates for each point and move them beside the point

step 3: verify that the coordinates are rational numbers

step 4: save your work to disk or print the page

4 marks application

(4) Due Wed. Feb14/07

Ex. 2

$$-\frac{1}{3} = \frac{-1}{3}$$

Mistake

$$\frac{-1}{3} = \frac{1}{3}$$

$$-\frac{2}{5} + \frac{1}{3}$$

$$\frac{-2 \times 3}{5} + \frac{1 \times 5}{3} = \frac{-6 + 5}{15}$$

$$= \boxed{\frac{-1}{15}}$$