

February 8, 2016

COR E 1.3

#4) $\left(-\frac{9}{5}\right)\left(-\frac{9}{7}\right) + \left(\frac{8}{5}\right)\left(-\frac{1}{7}\right)$

$\frac{81}{35} + \left(-\frac{4}{5}\right)$

$\frac{81 - 28}{35}$

$\frac{53}{35}$

$-\frac{4}{5} \cdot \frac{9}{7} = \frac{-28}{35}$

Feb 8-9:53 AM

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

$\frac{1}{2} = \frac{3}{6}$, $\frac{1}{3} = \frac{2}{6}$

$\frac{3}{6} + \frac{2}{6} = \frac{3+2}{6} = \frac{5}{6}$

Visual representation using fraction bars for $\frac{1}{2}$ and $\frac{1}{3}$ converted to $\frac{3}{6}$ and $\frac{2}{6}$.

Feb 8-10:08 AM

#3) $\left(\frac{2}{5}\right)\left(-\frac{8}{7}\right) - \left(\frac{4}{7}\right)\left(-\frac{9}{14}\right)$

$-\frac{16}{21} - \left(-\frac{9}{14}\right)$

$-\frac{16}{21} + \frac{9}{14}$

$\frac{-16(14) + 9(21)}{294}$

$\frac{-224 + 189}{294}$

$-\frac{35}{294} = -\frac{5}{42}$

Feb 8-10:12 AM

$-\frac{a}{b} = \frac{-a}{b} = \frac{a}{-b}$

$-\frac{a}{b} = \frac{(-1) \cdot a}{(-1) \cdot b} = 1 \cdot \frac{a}{b} = \frac{a}{b}$

Note: "one" under the 1 in the second equation.

Feb 8-10:15 AM

* SSC #2 - Due Wednesday

* Quiz #4 - Wednesday

Feb 8-10:20 AM

$\left(-\frac{2}{3}\right)^2 + \left[\left(-\frac{2}{3} + \frac{2}{3}\right) + 1\right]^2 - 4 + 2 \cdot \left(\frac{2}{3} - \frac{2}{3}\right)$

$\left(\frac{9}{4}\right) + \left[\left(-\frac{2+2}{3}\right) + 1\right]^2 - 4 + 2 \cdot \left(\frac{-5}{3}\right)$

$\left(\frac{9}{4}\right) + \left[\left(-\frac{2}{3}\right) + 1\right]^2 - 4 + 2 \cdot \left(-\frac{5}{3}\right)$

$\left(\frac{9}{4}\right) + \left[\frac{-2+3}{3}\right]^2 - 4 + 2 \cdot \left(-\frac{5}{3}\right)$

$\left(\frac{9}{4}\right) + \left[\frac{1}{3}\right]^2 - 4 + 2 \cdot \left(-\frac{5}{3}\right)$

$\left(\frac{9}{4}\right) + \frac{1}{9} - 4 + 2 \cdot \left(-\frac{5}{3}\right)$

$\frac{9}{4} + \frac{1}{9} - 4 + \frac{10}{3}$

$\frac{10}{4} - \frac{4}{1} + \frac{10}{3}$

$\frac{10-12}{4} + \frac{10}{3}$

$-\frac{2}{4} + \frac{10}{3}$

$-\frac{6}{12} + \frac{40}{12}$

$\frac{10}{4} = \frac{5}{2}$

Feb 8-10:28 AM