

Answer on Question #44570 - Math - Algebra

To subtract fractions with different denominator we should at first find common denominator for each fraction. In our case it's 15. So each fraction we will rewrite in such way:

$$3 = \frac{3 \cdot 15}{15}$$

$$\frac{12}{3} = \frac{12 \cdot 5}{3 \cdot 5} = \frac{12 \cdot 5}{15}$$

$$2 = \frac{2 \cdot 15}{15}$$

Now we can subtract:

$$3 - \frac{12}{3} - 2 - \frac{8}{15} = \frac{3 \cdot 15 - 12 \cdot 5 - 2 \cdot 15 - 8}{15} = \frac{15 - 8 - 12 \cdot 5}{15} = \frac{-53}{15}$$