Distributive forehorty of multiplication

For any rational numbers a, b and c,

a × (b+c) = (a × b) + (a × c)

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a(b+c)=ab+ac

Derification of the Distributive property of multiplication: Let us consider $a = \frac{-3}{4}$, $b = \frac{2}{3}$ and $c = \frac{-5}{6}$

$$a \times (b+c) = \frac{-3}{4} \times (\frac{2}{3} + \frac{-5}{6})$$

$$-\frac{3}{4} \times \left(\frac{4-5}{6}\right)$$

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