110 @ $x = -\frac{1}{2}, y = \frac{3}{4}, z = \frac{1}{4}$

LHS $= x \times (y+z)$

$= -\frac{1}{2} \times (\frac{3}{4} + \frac{1}{4})$

$= -\frac{1}{2} (\frac{4}{4})$

$= -\frac{1}{2}$

RHS $= x \times y + x \times z$

$= -\frac{1}{2} \times \frac{3}{4} + -\frac{1}{2} \times \frac{1}{4}$

$= -\frac{3}{8} + \frac{-1}{8}$

$= -\frac{\cancel{4}^1}{\cancel{8}_2}$

$\therefore x \times (y+z) = x \times y + x \times z$

110 ⓑ $x = -\frac{1}{2}, y = \frac{2}{3}, z = \frac{3}{4}$

LHS $= x \times (y+z)$

$= -\frac{1}{2}(\frac{2}{3} + \frac{3}{4})$

$= -\frac{1}{2} \times \frac{8+9}{12}$

$= -\frac{1}{2} \times \frac{17}{12}$

$= \frac{-17}{24}$

$x \times y + x \times z$

$= -\frac{1}{\cancel{2}} \times \frac{\cancel{2}}{3} + -\frac{1}{2} \times \frac{3}{4}$

$= -\frac{1}{3} + \frac{-3}{8}$

$= \frac{-8 + -9}{24}$

$= \frac{-17}{24}$

$\therefore x \times (y+z) = x \times y + x \times z$

110 ⓒ $x = \frac{-2}{3}, y = \frac{2}{15}, z = \frac{-3}{10}$

$x \times (y+z)$

$= -\frac{2}{3}(\frac{2}{15} + \frac{-3}{10})$

$= -\frac{2}{3}(\frac{4 + -9}{30})$

$= -\frac{\cancel{2}}{3} \times \frac{-\cancel{5}}{\cancel{30}_2}$

$x \times y + x \times z$

$= -\frac{2}{3} \times \frac{2}{15} + \frac{-\cancel{2}}{3} \times \frac{-\cancel{3}}{\cancel{10}_5}$

$= -\frac{4}{45} + \frac{1}{5}$

$= \frac{-4+9}{45}$

$= \frac{5}{45}$

$= \frac{1}{9}$