

Potenzen Aufgabe 35

$$\begin{aligned}
 & \left(\frac{(m+n)^{3x-4}}{m^{x-1}n} : \frac{n^{2x-5}}{m^{4x-3}(m+n)^{3-2x}} \right) * \frac{m^{4-3x}n^{3x-6}}{(m+n)^{x-2}} = \\
 & = \frac{(m+n)^{3x-4} * m^{4x-3}(m+n)^{3-2x} * m^{4-3x}n^{3x-6}}{m^{x-1}n * n^{2x-5} * (m+n)^{x-2}} = \\
 & = (m+n)^{3x-4+3-2x-(x-2)} * n^{3x-6-(2x-5)-1} * m^{4x-3+4-3x-(x-1)} \\
 & = \mathbf{(m+n) * n^{x-2} * m^2}
 \end{aligned}$$