5) $x = \frac{2}{5} = 0,4$

$y = \frac{3}{7}$;

$x - y = \frac{14 - 15}{35} = -\frac{1}{35} \approx -0,1110_2 \times 2^{-5}$

Rundung: ~~$x = (0,1100)_2 \times 2$~~

$x = (1,1001\ldots)_2 \times 2^{-2} \approx 1,1001 \times 2^{-2}$

$y = (1,1011\ldots)_2 \times 2^{-2} \approx 1,1011 \times 2^{-2}$

$x - y = 1,1001 \times 2^{-2} - 1,1011 \times 2^{-2} =$

$= 2^{-2} \times (1,1001 - 1,1011) = 2^{-2} \times 0,00001 =$

$= 1.0000_2 \times 2^{-7} = 0,0078125_{10} = \frac{1}{128_{10}}$

Relativer Fehler: $\left|\frac{x - f}{x}\right| =$

$= \left|\left(-\frac{1}{35} + \frac{1}{128}\right) / \frac{1}{35}\right| = \left|-\frac{93}{4480} / \frac{1}{35}\right| =$

$= \frac{93}{128} \approx 0,7265$; Relativ Fehler: $\approx 72,65\%$