

2.4 Multiplikation und Division von Brüchen

$$2.4.01 \quad 3 \frac{1}{8} \cdot \left(\frac{13}{15} - \frac{1}{3} \right) = 1 \frac{2}{3}$$

$$2.4.02 \quad \left(3 \frac{1}{6} - 2,4 \right) : 4 = \frac{23}{120}$$

$$2.4.03 \quad 2 \frac{1}{2} a \cdot 3,4 a b = 8,5 a^2 b$$

$$2.4.04 \quad \frac{2,7 x y}{5 z} : 1,8 x z = \frac{3 y}{10 z^2}$$

$$2.4.05 \quad 12 a b : \frac{0,6 a^2}{5 b} = \frac{100 b^2}{a}$$

$$2.4.06 \quad \frac{7,5 p q}{32 a r} : \frac{0,25 q r}{24 a p} = \frac{22,5 p^2}{r^2}$$

$$2.4.07 \quad \frac{6 c}{3,5 d^2} : \frac{4 c^2}{7 d} = \frac{3}{c d}$$

$$2.4.08 \quad \frac{p^2 - 2 p q}{p^2 + 2 p q} : (p - 2 q)^2 = \frac{1}{p^2 - 4 q^2}$$

$$2.4.09 \quad \frac{5}{r^2 t} \cdot 3 r t^2 = \frac{15 t}{r}$$

$$2.4.10 \quad \frac{k + l}{k - l} : \frac{k^2 + 2 k l + l^2}{k^2 - l^2} = 1$$

$$2.4.11 \quad \frac{1}{a^2 - 2 a - 15} : \frac{1}{a^2 + a - 6} = \frac{a - 2}{a - 5}$$

$$2.4.12 \quad \frac{r + r^2}{1 - r^2} : \frac{r}{1 - r} = 1$$

$$2.4.13 \quad \frac{3 s^2 - 6 t^2}{(s - t)^2} : \frac{4 s^2 - 8 t^2}{s - t} = \frac{3}{4 (s - t)}$$

$$2.4.14 \quad \frac{1+f}{f-1} : \frac{1+f^2}{1-f^2} =$$

$$2.4.15 \quad \frac{m^2 + 2mn + n^2}{n+m} : 2mn =$$

$$2.4.16 \quad \left(p^2 - \frac{1}{p}\right) : (p-1) =$$

$$2.4.17 \quad \frac{km + lm - kn - ln}{m-n} : (k+l) =$$

$$2.4.18 \quad \frac{3b+3a}{3a-3b} : \frac{5a^2-5b^2}{5b^2-10ab+5a^2} =$$

$$2.4.19 \quad \frac{u^2+u-12}{u^2+3u-10} : \frac{u^2+2u-8}{u^2+10u+25} =$$

$$2.4.20 \quad \frac{e+f}{e} \cdot \frac{e-f}{(e+f)^2} : \frac{e^2-f^2}{e^2} =$$

$$2.4.21 \quad \left(\frac{1}{a} + \frac{1}{b} + \frac{1}{c}\right) : \frac{1}{abc} =$$

$$2.4.22 \quad \left(\frac{3a}{4b} - \frac{4b}{3a}\right) : \left(\frac{4}{a} + \frac{3}{b}\right) =$$

$$2.4.23 \quad \left(x - \frac{y^2}{x}\right) : \left(y - \frac{x^2}{y}\right) =$$

$$2.4.24 \quad \frac{m^2-m}{m^2+2m} \cdot \frac{m^2-4}{m^2-1} : \frac{m^2-4m+4}{m^2+2m+1} =$$

$$\frac{-(f+1)^2}{f^2+1}$$

$$\frac{m+n}{2mn}$$

$$\frac{p^2+p+1}{p}$$

$$1$$

$$1$$

$$\frac{(u-3)(u+5)}{(u-2)^2}$$

$$\frac{e}{(e+f)^2}$$

$$ab + ac + bc$$

$$\frac{3a-4b}{12}$$

$$-\frac{y}{x}$$

$$\frac{m+1}{m-2}$$