Abgabe: 5.9.2008

Name:

1	Bitte rechnen Sie aus: a) $(7g + 6o)^2$ b) $(5w - 11)(5w + 11)$ c) $(-7i - 2)^2$ d) $(-5w - 3d)(-5w + 3d)$ e) $(2y + 1)(2y - 1)$ f) $(6{,}3q - 3{,}1)^2$ g) $(1{,}5a - 7{,}1)^2$ h) $(11{,}9m - 5{,}5)^2$ i) $(-1{,}5y + 10{,}9)^2$ j) $(5{,}7n - 6{,}9)^2$
2	Bitte rechnen Sie aus: a) $\dfrac{cq-3}{wz+2} - \dfrac{4ek+1}{-9pq-ci}$ b) $\dfrac{-6v+1}{-5b-6v} + \dfrac{5b-9u}{5u+1}$ c) $\dfrac{-3v+11}{-2b-3a} + \dfrac{10u-1}{-9v-2}$ d) $\dfrac{10u-11v}{-2u+11a} - \dfrac{v+2a}{6v+5u}$
3	Bitte kürzen Sie: a) $\dfrac{-70rt-21t^2+35t}{56st+63rt+70t}$ b) $\dfrac{10rt-5t^2-60t}{40rt-55t^2+20t}$ c) $\dfrac{27st-21rs-27s}{-3rs+33s^2-21s}$
4	Bitte rechnen Sie aus: a) $\dfrac{\left(-\frac{-5}{8}+\frac{-9}{4}\right)\cdot\left(-\frac{-4}{7}-\frac{-7}{-6}\right)}{\left(-\frac{-5}{-8}+\frac{-7}{-6}\right)\cdot\left(-\frac{7}{-9}-\frac{7}{-8}\right)}$ b) $\dfrac{\frac{-7}{-8}\cdot\frac{-3}{-2}\cdot\frac{-8}{9}\cdot\frac{10}{7}}{\frac{9}{4}\cdot\frac{-7}{-6}\cdot\frac{5}{3}\cdot\frac{-7}{-10}}$ c) $\dfrac{\left(-\frac{3}{-4}+\frac{-9}{4}\right)\cdot\left(-\frac{6}{7}+\frac{-3}{-2}\right)}{\left(\frac{9}{2}-\frac{10}{7}\right)\cdot\left(\frac{-9}{-4}-\frac{5}{-3}\right)}$ d) $\dfrac{\left(-\frac{-1}{-6}+\frac{3}{10}\right)\cdot\frac{-5}{-3}}{\left(-\frac{-9}{4}-\frac{-3}{-4}\right)\cdot\frac{2}{-3}}$ e) $\dfrac{\left(\frac{-4}{-5}+\frac{-9}{8}+\frac{-1}{8}-\frac{3}{7}\right)\cdot\frac{-3}{10}}{\left(-\frac{1}{7}+\frac{5}{6}+\frac{-3}{-10}-\frac{-1}{-10}\right)\cdot\frac{2}{3}}$