1. Kürze soweit wie möglich.

a) $\frac{14t - 18t^3}{6t^2}$ b) $\frac{27a^2b - 36ab^2}{18ab}$ c) $\frac{12(a + 2)(a - 7)}{4a + 8}$ d) $\frac{3r^3 - 27r}{6r^2 + 18r}$

2. Vereinfache

a) $\frac{2x^2y}{5a} \cdot \frac{6a^2b}{4y} =$ b) $\frac{9x^2y}{4a} \cdot \frac{4a^2b^2}{5x} =$ c) $\frac{7d^2e}{18f^2g} \cdot \frac{-4g}{2de^2} =$

3. Dividiere

a) $\frac{a^2b - 2a^2}{4a^3 + a^3b} : \frac{a - 2}{28 + 7b} =$ b) $\frac{8x - 2y}{3x + 3y} : \frac{16x^2 - y^2}{x^2 - y^2} =$

c) $\frac{16x^2 - 4y^2}{x^2 - y^2} : \frac{4x + 2y}{x + y} =$ d) $\frac{4ab}{4a^2 - 9b^2} : \frac{8ab}{2a - 3b} =$