P. e Rad.: Cov. Serie 2

1) $3^{-2-(-3)} = 3$

2) $\left[\frac{(3^{-2})^2 : 3^{-2}}{3^2}\right]^3 = \left(\frac{3^{-4} : 3^{-2}}{3^2}\right)^3 = \left(\frac{3^{-2}}{3^2}\right)^3 = (3^{-4})^3 = 3^{-12}$

3) $\left(\frac{a^4 b^6 \cdot a^{-3}}{b^2 a^{-1}}\right)^2 = \left(\frac{a b^6}{b^2 a^{-1}}\right)^2 = (a^2 b^4)^2 = a^4 b^8$

4) $\frac{(2^{-6} \cdot 3^{-6} : 2^3)^2}{3^8 \cdot 2^{-12}} = \frac{(2^{-9} \; 3^{-6})^2}{3^8 \cdot 2^{-12}} = \frac{2^{-18} \cdot 3^{-12}}{3^8 \cdot 2^{-12}} = 2^{-6} \cdot 3^{-20}$

5) $\left(\frac{\cancel{a^6} \cdot b^{-12} \cdot \cancel{a^{-6}} \cdot b^{-2}}{a^{-15} b^3}\right)^{-1} = \left(\frac{b^{-14}}{a^{-15} b^3}\right)^{-1} =$ ($a^0 = 1$)

$= \frac{b^{14}}{a^{15} b^{-3}} = \frac{b^{17}}{a^{15}}$

$= \left(\frac{b^{-17}}{a^{-15}}\right)^{-1} = \frac{b^{17}}{a^{15}}$