e) log $\sqrt[3]{9cd}$ = log $(9cd)^{\frac{1}{3}}$ = $\frac{1}{3}$·log(9cd) = $\frac{1}{3}$·(log 9 + log c + log d)

f) log(x $\sqrt{y}$) = log(x · $y^{\frac{1}{2}}$) = log x + log $y^{\frac{1}{2}}$ = log x + $\frac{1}{2}$· log y