1.9

1) $\left(\left(\sqrt[n]{a}\right)^p\right)^n = \left(\sqrt[n]{a}\right)^{n\,p} = \left(\left(\sqrt[n]{a}\right)^n\right)^p = a^p = \left(\sqrt[n]{a^p}\right)^n$

2) $\left(\sqrt[n]{a}\,\sqrt[n]{b}\right)^n = \left(\sqrt[n]{a}\right)^n \left(\sqrt[n]{b}\right)^n = a\,b = \left(\sqrt[n]{a\,b}\right)^n$

3) $\left(\dfrac{\sqrt[n]{a}}{\sqrt[n]{b}}\right)^n = \dfrac{\left(\sqrt[n]{a}\right)^n}{\left(\sqrt[n]{b}\right)^n} = \dfrac{a}{b} = \left(\sqrt[n]{\dfrac{a}{b}}\right)^n$