(1) [Ha] Ch.II: 7.2, 7.3, 7.5 (a)-(d), 7.6
(2) Let $X$ be a projective variety and $L$ an invertible sheaf on $X$.
(a) Prove that $L$ is very ample if and only if $L \otimes m_x$ is globally generated for every $x \in X$.
(b) Assume now that $X$ is smooth and $L$ satisfies

$$H^1(X, L) = 0.$$ 

Then $L$ is globally generated if and only if

$$H^1(X, L \otimes m_x) = 0, \ \forall \ x \in X.$$ 

Prove an analogous statement for the very ampleness of $L$, by replacing $m_x$ with $m_{x,y}$ and $m_x^2$, where $x, y$ are distinct points on $X$. [This applies for instance over the complex numbers for adjoint line bundles of the form $L = \omega_X \otimes A$, with $A$ an ample line bundle, by the Kodaira Vanishing theorem.]