### 2.2 Exponent Properties

$$
\begin{array}{ll}
a^{m} \cdot a^{n}=a^{m+n} & \left(a^{m}\right)^{n}=a^{m n} \\
\frac{a^{m}}{a^{n}}=a^{m-n} & a^{-m}=\frac{1}{a^{m}}
\end{array}
$$









