

These powers should be memorized.

Perfect Squares

$$\begin{aligned}1^2 &= 1 \\2^2 &= 4 \\3^2 &= 9 \\4^2 &= 16 \\5^2 &= 25 \\6^2 &= 36 \\7^2 &= 49 \\8^2 &= 64 \\9^2 &= 81 \\10^2 &= 100 \\11^2 &= 121 \\12^2 &= 144 \\13^2 &= 169 \\14^2 &= 196 \\15^2 &= 225 \\16^2 &= 256 \\17^2 &= 289 \\18^2 &= 324 \\19^2 &= 361 \\20^2 &= 400\end{aligned}$$

Perfect Cubes

$$\begin{aligned}1^3 &= 1 \\2^3 &= 8 \\3^3 &= 27 \\4^3 &= 64 \\5^3 &= 125 \\6^3 &= 216 \\7^3 &= 343 \\8^3 &= 512 \\9^3 &= 729 \\10^3 &= 1000\end{aligned}$$

Perfect Fourth Powers

$$\begin{aligned}1^4 &= 1 \\2^4 &= 16 \\3^4 &= 81 \\4^4 &= 256 \\5^4 &= 625\end{aligned}$$

Perfect Fifth Powers

$$\begin{aligned}1^5 &= 1 \\2^5 &= 32 \\3^5 &= 243 \\4^5 &= 1024\end{aligned}$$

