

Share Possible Solutions

1. Each method is composed of two steps. In method 1 the radical is simplified and then the exponent is applied. This process is applied in the opposite order in method 2.
2. The advantage of method 1 is that by simplifying the radicand first, you avoid working with larger numbers than what is given. This advantage extends to the point that a person may not need to use a calculator if the numbers are small enough. The advantage of method 2 is less obvious. If the numbers are small, then the first step—the evaluation of a power—can be done mentally.