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Solve the following problems using roots.

The Jones have a square shaped dining room with an area of 196 square feet. What is the length of one wall?

The public town square is a perfect square with an area of 210 square yards. The length of each side of the town square must be between what lengths?

The Jacksons have a square patio measuring 169 square feet. What is the perimeter of the patio? (Hint: Remember what perimeter is and how to find it)

The volume of a cubic crate is 729 cubic feet. What is the length of each side of the crate?

A cubic box has a volume of 1600 cubic inches. Each shelf on the bookshelf measures 12 inches high. Will the box fit on the bookshelf?