

To find the fifth root, identify all fifth roots within the radical:

$$\sqrt[5]{192a^7b^{12}c^{11}} = \sqrt[5]{2^5 \cdot 6 \cdot a^5 \cdot a^2 \cdot (b^2)^5 \cdot b^2 \cdot (c^2)^5 \cdot c}. \text{ Then pull out the roots and simplify the expression:}$$
$$2ab^2c^2 \sqrt[5]{6a^2b^2c}.$$