

Must show all steps and all work to earn full credit.

Simplify the radical. Assume that all variables represent nonnegative real numbers.

$$1) \sqrt{108k^7q^8}$$

Express the radical in simplified form. Assume that all variables represent positive real numbers.

$$2) -\sqrt[3]{1000x^4y^5}$$

$$3) \sqrt[3]{\frac{y^{19}}{8}}$$

Simplify the radical. Assume that all variables represent positive real numbers.

$$4) \sqrt[3]{\frac{256x^4}{4x}}$$

$$5) \sqrt[4]{\frac{5y^7}{3125y^3}}$$