1. Use the product rule to multiply.

$$\sqrt[3]{6} \cdot \sqrt[3]{7}$$

$$\sqrt[3]{6} \cdot \sqrt[3]{7} =$$

(Type an exact answer, using radicals as needed. Simplify your answer.)

2. Use the product rule to multiply. Assume that all variables represent positive real numbers.

$$\sqrt[4]{2x^3} \cdot \sqrt[4]{3}$$

$$\sqrt[4]{2x^3} \cdot \sqrt[4]{3} =$$

(Type an exact answer, using radicals as needed. Simplify your answer.)

3. Use the quotient rule to simplify.

$$3\sqrt{\frac{7}{27}}$$

$$\sqrt[3]{\frac{7}{27}} = \underline{\hspace{1cm}}$$

(Type an exact answer, using radicals as needed. Simplify your answer.)

4. Simplify.

$$\sqrt[3]{135}$$

³√135 = ____

5. Use the quotient rule to divide. Then simplify if possible.

$$\frac{3\sqrt[4]{48}}{\sqrt[4]{3}}$$

$$\frac{3\sqrt[4]{48}}{4\sqrt{3}} =$$

(Type an exact answer, using radicals as needed. Simplify your answer.)

6. Rationalize the denominator of $\frac{7}{\sqrt[3]{6}}$.

$$\frac{7}{\sqrt[3]{6}}$$
 = _____ (Type an exact answer, using radicals as needed.)

	2
1.	$\sqrt[3]{42}$

2. $\sqrt[4]{6x^3}$

 $3. \ \frac{\sqrt[3]{7}}{\sqrt[3]{3}}$

 $4.3\sqrt[3]{5}$

5. 6

6. $\frac{7\sqrt[3]{36}}{6}$