

Rationalize the denominator and simplify. Assume all variables are positive.

$$1. \frac{20}{\sqrt{2c}} \cdot \frac{\sqrt{2c}}{\sqrt{2c}} = \frac{20\sqrt{2c}}{2c} = \frac{10\sqrt{2c}}{c}$$

$$2. \frac{15}{\sqrt{6Q^3}} \cdot \frac{\sqrt{6Q}}{\sqrt{6Q}} = \frac{15\sqrt{6Q}}{6Q^2} = \frac{5\sqrt{6Q}}{2Q^2}$$

$$3. \frac{8}{\sqrt{7w^{11}}} \cdot \frac{\sqrt{7w}}{\sqrt{7w}} = \frac{8\sqrt{7w}}{7w^6}$$

$\sqrt{7^2 w^{12}}$

Rationalize the denominator and simplify. Assume all variables are positive.

$$\frac{1}{\sqrt[3]{p}} \cdot \frac{\sqrt[3]{p^2}}{\sqrt[3]{p^2}} = \frac{\sqrt[3]{p^2}}{p}$$

$\sqrt[3]{p^3}$

$$\frac{7}{\sqrt[3]{d^2}} \cdot \frac{\sqrt[5]{d^3}}{\sqrt[5]{d^3}} = \frac{7\sqrt[5]{d^3}}{\sqrt[15]{d^3}}$$

$$\frac{3}{\sqrt[6]{a^{15}}} \cdot \frac{\sqrt[6]{a^3}}{\sqrt[6]{a^3}} = \frac{3\sqrt[6]{a^3}}{a^3}$$

Rationalize the denominator and simplify. Assume all variables are positive.

1.
$$\frac{1}{\sqrt[3]{ab^2}} \cdot \frac{\sqrt[3]{a^2b}}{\sqrt[3]{a^2b}} = \frac{\sqrt[3]{a^2b}}{ab}$$

Rationalize the denominator and simplify. Assume all variables are positive.

2.
$$\frac{9}{\sqrt[4]{c^2d^3e}} \cdot \frac{\sqrt[4]{c^2de^3}}{\sqrt[4]{c^2de^3}} = \frac{9\sqrt[4]{c^2de^3}}{cde}$$