

① EXAMPLE

Simplify these rational expressions.

a)
$$\sqrt{75}$$

b)
$$\sqrt{162}$$

$$c)\sqrt{72x^3y^2}$$

$$d)\sqrt{0.0027}$$

2 EXAMPLE

Simplify these rational expressions.

- $a)\sqrt{18x^4}$
- *b*) $\sqrt[3]{81}$
- c) $\sqrt[5]{486x^7}$
- $d)\sqrt{\frac{18x^2}{w^6}}$
- $e)\sqrt[5]{128u^4v^7}$

3 EXAMPLE

Rationalize the denominator.

- $a)\sqrt{\frac{1}{3}}$
- $b)\sqrt{\frac{4}{x^3}}$
- $c)\frac{10}{5/6}$
- $d)\sqrt[3]{\frac{9}{25}}$



$$f) \frac{5}{\sqrt{8r^5}}$$