

Simplifying Radical Expressions (Just variables)

Simplify

Ex ①

$$\frac{\sqrt{x^{10}}}{x^5}$$

②

$$\frac{\sqrt{x^{11}}}{x^5}$$
$$\frac{\sqrt{x^{10} x^1}}{x^5}$$
$$\frac{\sqrt{x^{10}} \sqrt{x^1}}{x^5}$$
$$\frac{x^5 \sqrt{x^1}}{x^5}$$

③

$$\frac{\sqrt{x^5}}{x^2}$$
$$\frac{\sqrt{x^4 x^1}}{x^2}$$
$$\frac{x^2 \sqrt{x^1}}{x^2}$$

④

$$\frac{\sqrt{x^{37}}}{x^{18}}$$
$$\frac{\sqrt{x^{36} x^1}}{x^{18}}$$
$$\frac{\sqrt{x^{36}} \sqrt{x^1}}{x^{18}}$$
$$\frac{x^{18} \sqrt{x^1}}{x^{18}}$$

⑤

$$\frac{\sqrt{x^{38}}}{x^{19}}$$

⑥

$$\frac{\sqrt{(y-2)^8}}{(y-2)^4}$$