

Restrictions on Variables in Radicands

<p>Denominators cannot be equal to zero.</p>	$\frac{8}{\sqrt{x}}, x > 0$ $\frac{1}{\sqrt{x+3}}, x > -3$
<p>If the index is EVEN, the radicand must either be positive or zero.</p>	$\sqrt[4]{xy}, x \geq 0, y \geq 0$ $\sqrt{xy^5}, x \geq 0, y \geq 0$ $\sqrt{x^2y^3}, x \in R, y \geq 0$
<p>If the index is ODD, the radicand may either be positive, negative or zero.</p>	$\sqrt[5]{xy}, x \in R \text{ (no restriction on } x)$ $\sqrt[3]{x^2y^5}, x \in R \text{ (no restriction on } x)$