

## Rationalizing Rational Expressions

More practice:

Rationalize each numerator:

$$1. \frac{\sqrt{5h+4}-2}{h}$$

$$2. \frac{\sqrt{x^2+8}-3}{x+1}$$

$$3. \frac{2-\sqrt{x^2-5}}{x+3}$$

Rationalize each denominator:

$$4. \frac{x-1}{\sqrt{x+3}-2}$$

$$5. \frac{x+2}{\sqrt{x^2+5}-3}$$

$$6. \frac{4-x}{5-\sqrt{x^2+9}}$$

Answers:

$$1. \frac{5}{\sqrt{5h+4}+2}$$

$$2. \frac{x-1}{\sqrt{x^2+8}+3}$$

$$3. \frac{3-x}{2+\sqrt{x^2-5}}$$

$$4. \sqrt{x+3}+2$$

$$5. \frac{\sqrt{x^2+5}+3}{x-2}$$

$$6. \frac{5+\sqrt{x^2+9}}{4+x}$$