

Name _____

Date _____

Rewriting Rational Expression - Step-by-Step Lesson

Simplify the rational expression.

$$\frac{h}{h^2 + 6h}$$

$$h^2 + 6h$$



Explanation:

$$\frac{h}{h^2 + 6h}$$

$$h^2 + 6h$$

$$\frac{h}{h(h + 6)}$$

$$h(h + 6)$$

Factor out the GCF of the denominator, in this case h.

$$\frac{\cancel{h}}{\cancel{h}(h + 6)}$$

$$\frac{1}{(h + 6)}$$

Cancel the common or like factors.

$$\frac{1}{(h + 6)}$$

Simplify

$$(h + 6)$$

So the answer is $\frac{1}{(h + 6)}$

$$(h + 6)$$

