11. $a \cdot \frac{k}{a} = (\omega - v)a$

$$\frac{k}{\omega - v} = \frac{a(\omega - v)}{\omega - v}$$

$$\frac{k}{\omega - v} = a$$

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$$a = -\frac{k}{-\omega + v} = \frac{-k}{-\omega + v} = \frac{k}{-(\omega + v)}$$

$$a = \frac{k}{\omega + v}$$

13. $u = ka + ba$

$$\frac{u}{(k+b)} = \frac{a(k+b)}{(k+b)}$$

$$a = \frac{u}{k+b}\left(\frac{-1}{-1}\right) = \frac{-u}{-k-b}$$

$$b \neq -k$$

# Simplifying Quadratic Rational Expression

Simplify

$$\frac{x^2 + 2x + 1}{x + 1}$$

Restriction

$x \neq -1$

$$\frac{\cancel{(x+1)}(x+1)}{\cancel{(x+1)}}$$

$$x + 1$$

$x \neq -1$