

$$\frac{a}{-1} - \frac{b}{-1} = -1(-a+b)$$

DOTS

## Warm-up #4: Simplifying

1.  $\cos^4\theta - \sin^4\theta$

$$(\cos^2\theta + \sin^2\theta)(\cos^2\theta - \sin^2\theta)$$

1.  $(\cos^2\theta - \sin^2\theta)$

$$\boxed{\cos^2\theta - \sin^2\theta}$$

$$a^2 - b^2$$

$$(a+b)(a-b)$$

2.  $\frac{1}{1+\tan^2\theta} + \frac{1}{1+\cot^2\theta}$

$$\frac{1}{\sec^2\theta} + \frac{1}{\csc^2\theta}$$

$$\cos^2\theta + \sin^2\theta$$

$$\boxed{1}$$