

$$\tan(A-B) = \frac{\tan A - \tan B}{1 + \tan A \tan B}$$

Warmup 7: Simplify:  $\tan(\theta - \pi)$

$$\frac{\tan \theta - \tan \pi}{1 + \tan \theta \tan \pi} = \frac{\tan \theta - 0}{1 + \tan \theta (0)}$$

$$= \frac{\tan \theta}{1-0} = \frac{\tan \theta}{1} = \boxed{\tan \theta}$$