C12 - 4.7 - NPVs WS *Denominator $\neq 0$*

Determine the non-permissible values of x in radians, for the following expressions.

$$\frac{1}{\sin x} \qquad\qquad \frac{\sin x}{\cos x} \qquad\qquad \frac{\cos x}{1 - \sin x}$$

$$\csc x \qquad\qquad \frac{\tan x}{\sin x} \qquad\qquad \frac{1}{\csc x}$$

$$\frac{1}{\cos \theta - \frac{1}{2}} \qquad \frac{1}{\tan x} \qquad \frac{\csc x}{\tan x} \qquad \frac{\cot x}{\tan x} \qquad \frac{\tan x}{x}$$

$$\frac{1}{\cos^2 x} \qquad \frac{1}{1 - \sin^2 x} \qquad \frac{1}{\tan \theta - 1} \qquad \frac{1}{\sin \theta - \frac{1}{\sqrt{2}}} \qquad \frac{\cos x}{5}$$

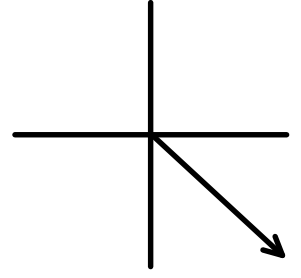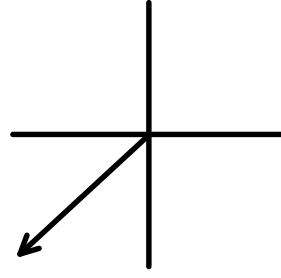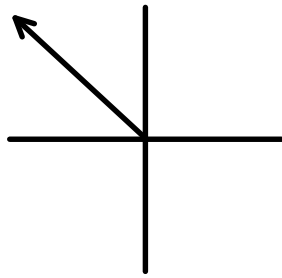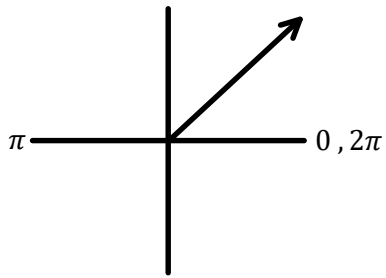$$\frac{1}{\sin x - \cos x} \qquad \frac{1}{\sin x - \tan x} \qquad \frac{1}{\cos^2 x + 1} \qquad \frac{1}{\cos^2 x + \cos x - 2}$$
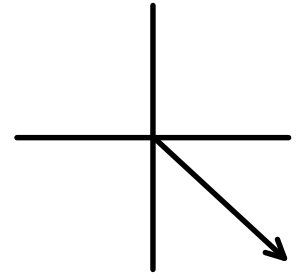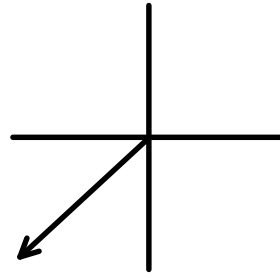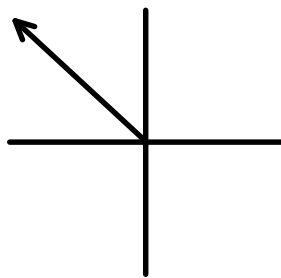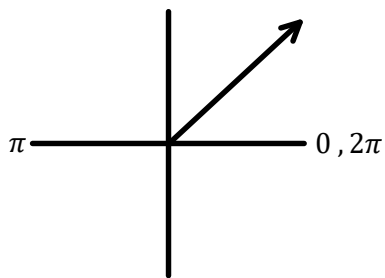
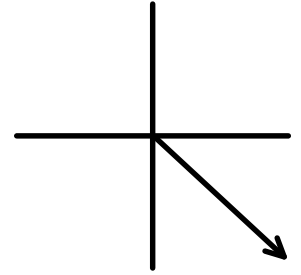# C12 - 4.7 - Domain Change HMK
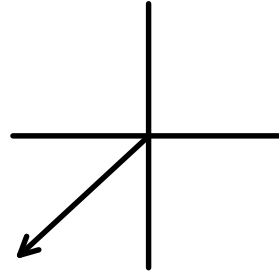
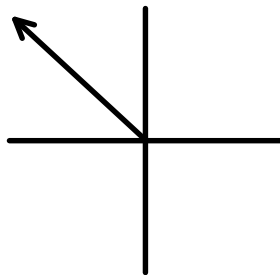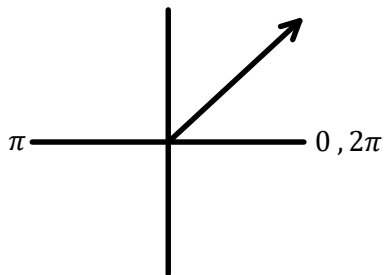Draw θ_{stp} Arrows within the Domain

$0 \leq \theta < 2\pi$

$-\pi \leq \theta < 0$

$-\dfrac{\pi}{2} \leq \theta < \dfrac{\pi}{2}$

$0 \leq \theta < 4\pi$