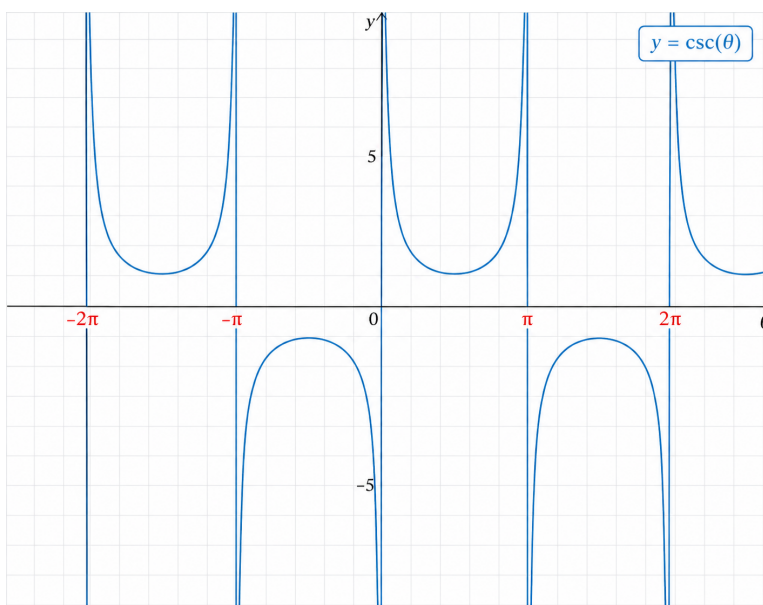
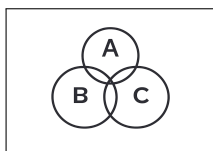




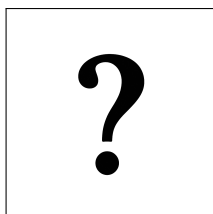
$$y = \csc(\theta)$$

$$\text{Dom}(y) \rightarrow \theta = -2\pi, -\pi, 0, \pi, 2\pi, \dots$$



$$y = \csc(\theta)$$

$$\text{Dom}(y) \rightarrow \theta \neq n\pi, n = 0, \pm 1, \pm 2, \dots$$



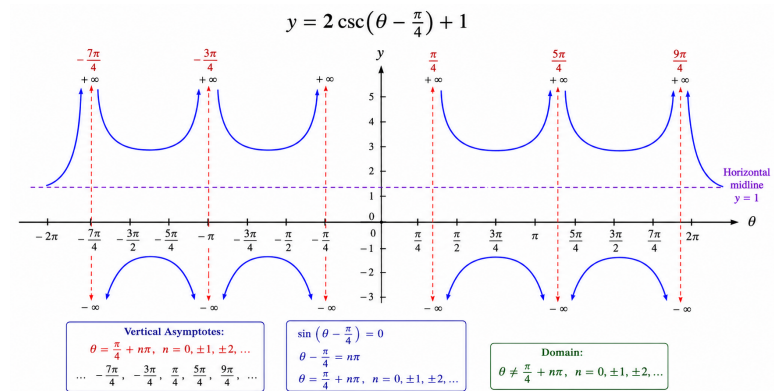
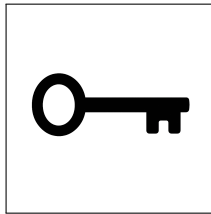
$$y = 2\csc(\theta - \pi/4) + 1$$

$$\text{Dom}(y) = ?$$

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Facts and Properties Domain

B



$$y = 2 \csc\left(\theta - \frac{\pi}{4}\right) + 1$$

$$\sin\left(\theta - \frac{\pi}{4}\right) = 0$$

$$\theta - \frac{\pi}{4} = n\pi$$

$$\theta = \frac{\pi}{4} + n\pi, n = 0, \pm 1, \pm 2, \dots$$

$$\text{Dom}(y) \rightarrow \theta \neq \frac{\pi}{4} + n\pi$$