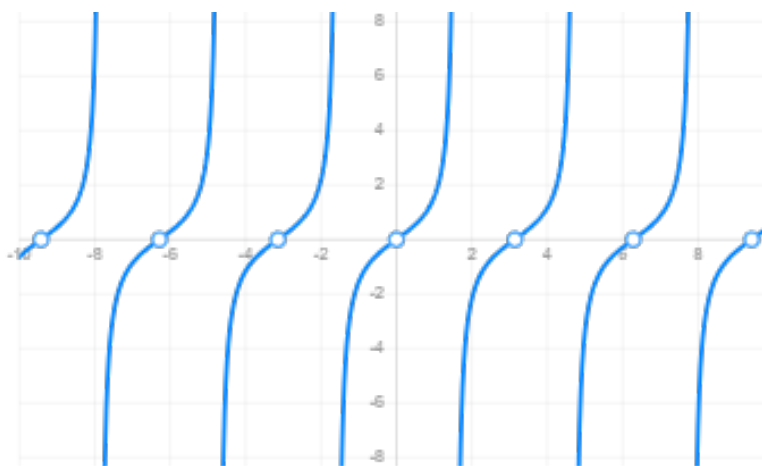


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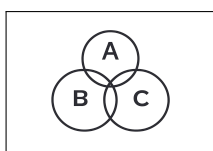
Facts and Properties Domain

A



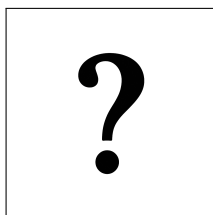
$$y = \tan(\theta)$$

$$\text{Dom}(y) \rightarrow \theta = \pi/2, 3\pi/2, \dots$$



$$y = \tan(\theta)$$

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



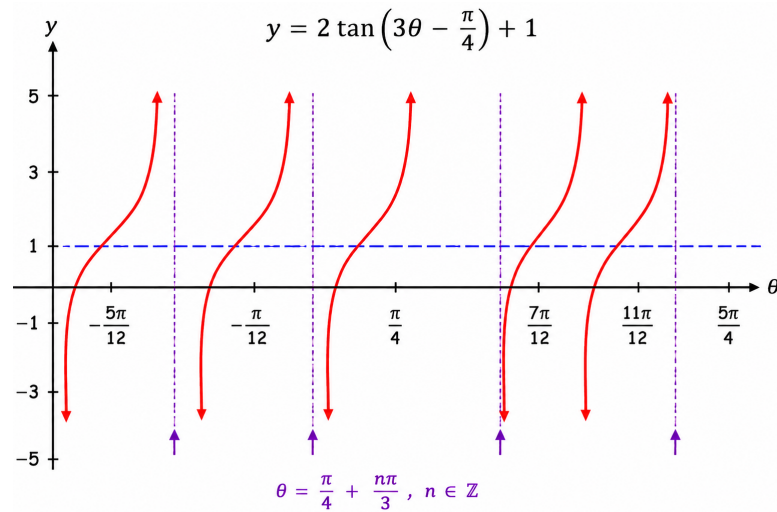
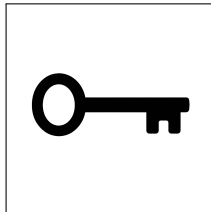
$$y = 2 \tan(3\theta - \pi/4) + 1$$

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

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Facts and Properties Domain

A



$$y = 2 \tan(3\theta - \pi/4) + 1$$

$$3\theta - \pi/4 \neq \pi/2 + n\pi$$

$$3\theta \neq \pi/2 + \pi/4 + n\pi$$

$$3\theta \neq 3\pi/4 + n\pi$$

$$\theta \neq \pi/4 + n\pi/3$$

$$\theta \neq (1/4 + n/3)\pi$$

$$\text{Dom}(y) \rightarrow \theta \neq (1/4 + n/3)\pi, n = 0, \pm 1, \pm 2, \dots$$