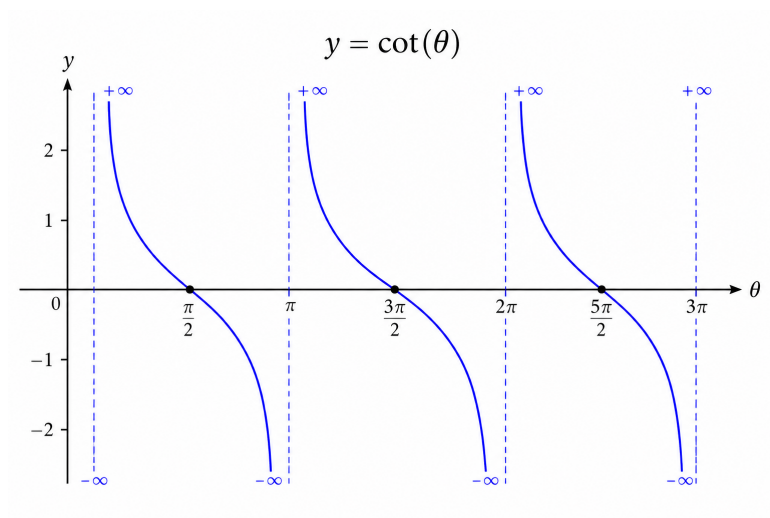
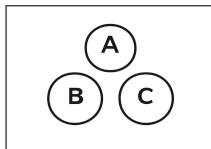
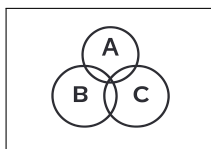




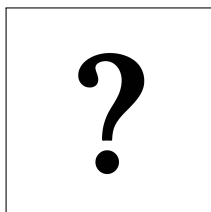
$$y = \cot(\theta)$$

$$\text{Dom}(y) \rightarrow \theta \neq 0, \pi, 2\pi, 3\pi, \dots$$



$$y = \cot(\theta)$$

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



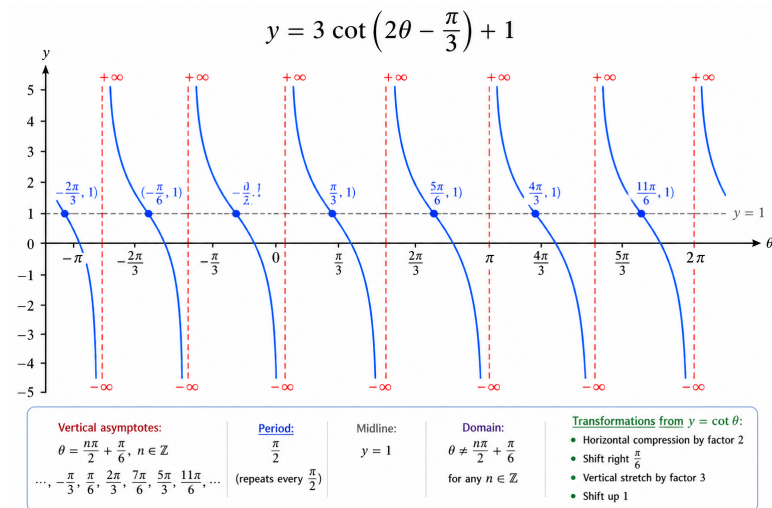
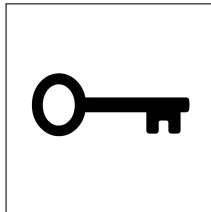
$$y = 3 \cot(2\theta - \pi/3) + 1$$

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

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Facts and Properties Domain

D



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

$$\sin(2\theta - \pi/3) = 0$$

$$2\theta - \pi/3 = n\pi$$

$$2\theta = n\pi + \pi/3$$

$$\theta = n\pi/2 + \pi/6, n = 0, \pm 1, \pm 2, \dots$$

$$\text{Dom}(y) \rightarrow \theta \neq n\pi/2 + \pi/6, n = 0, \pm 1, \pm 2, \dots$$