

tangent transformations 1

	A	B	C	D	E	F
1	a		3			
2	b		1/2			
3	c		$2\pi/3$			
4	d		2			

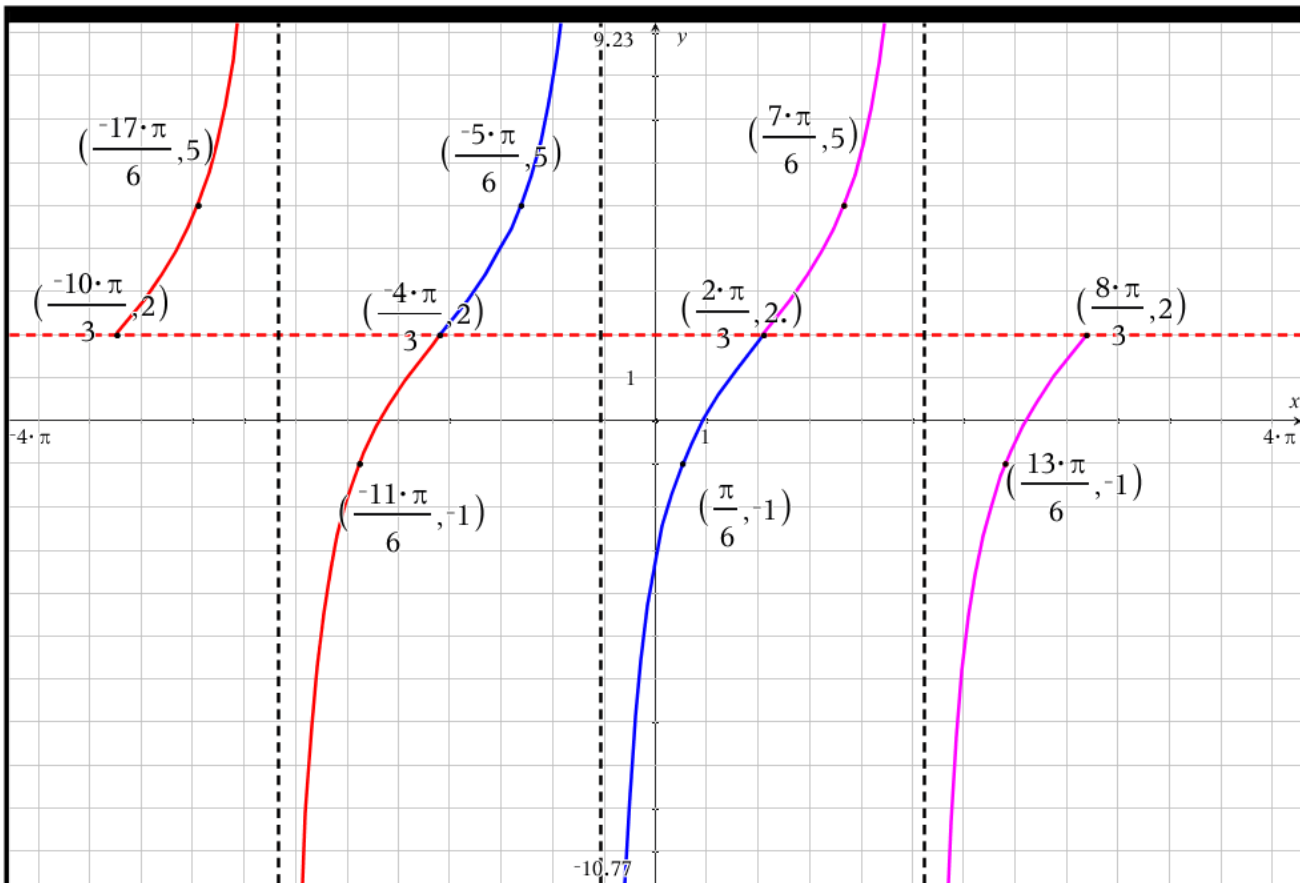
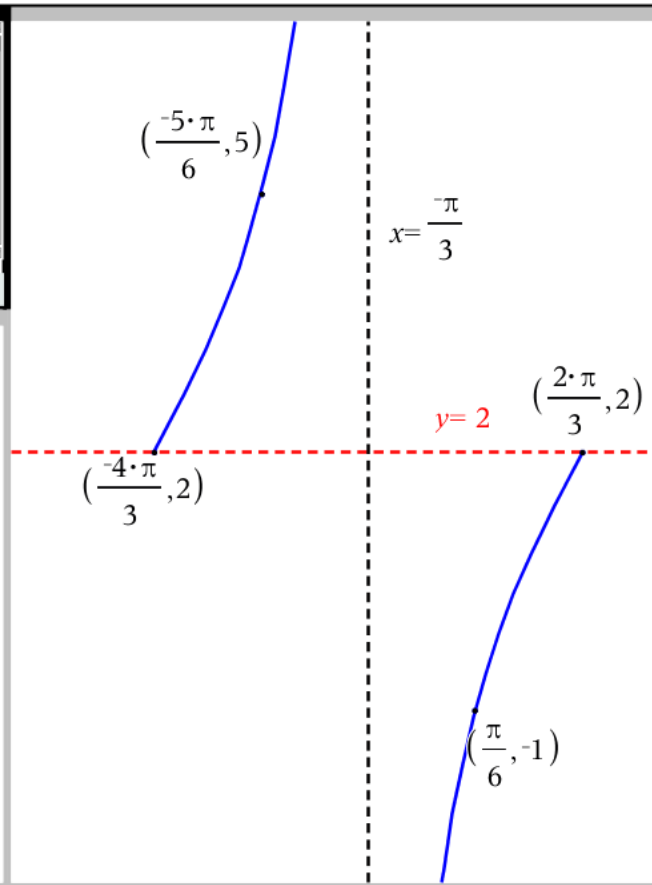
$$y = 3 \tan\left(\frac{1}{2}\left(x + \frac{4\pi}{3}\right)\right) + 2$$

$$y = 3 \tan\left(\frac{1}{2}x + \frac{2\pi}{3}\right) + 2$$

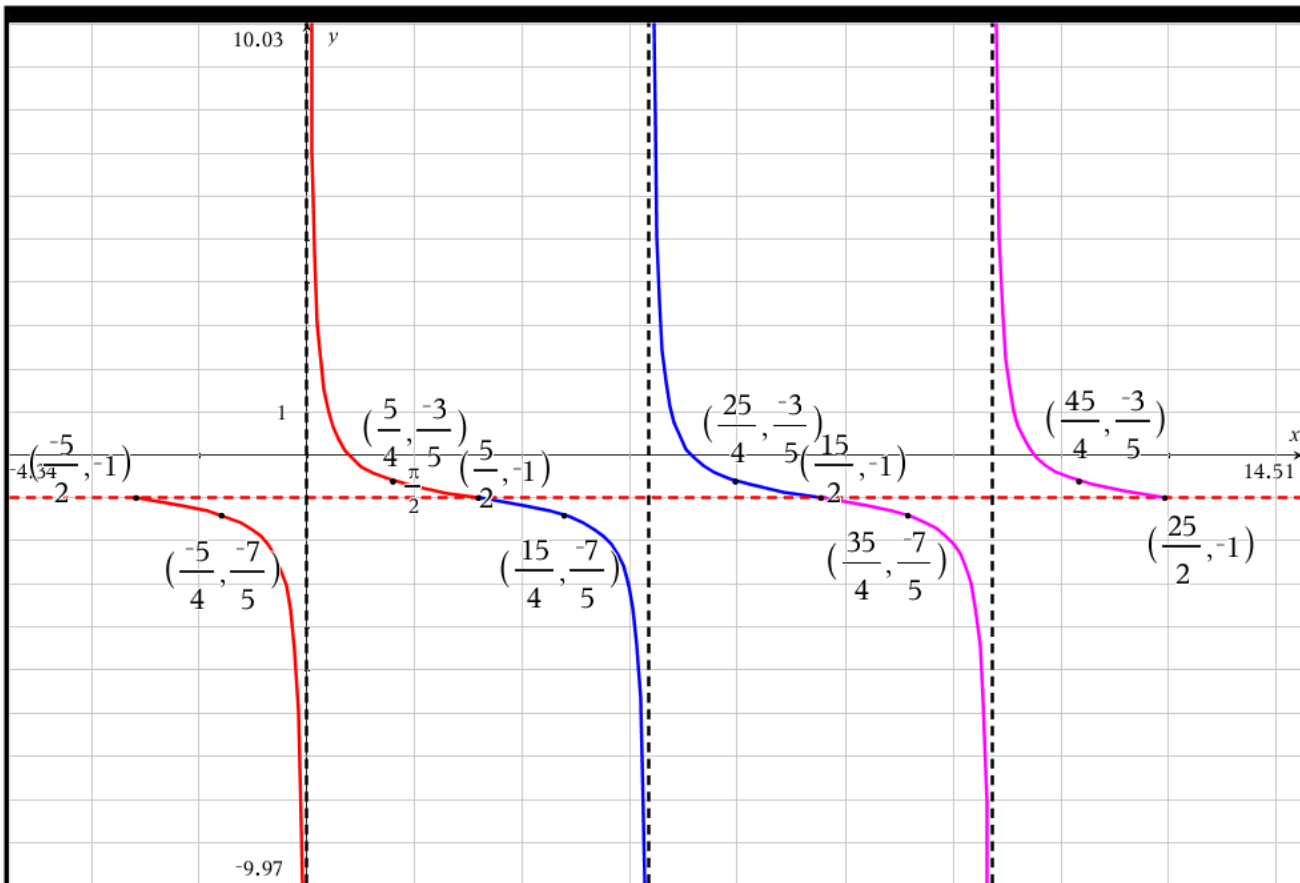
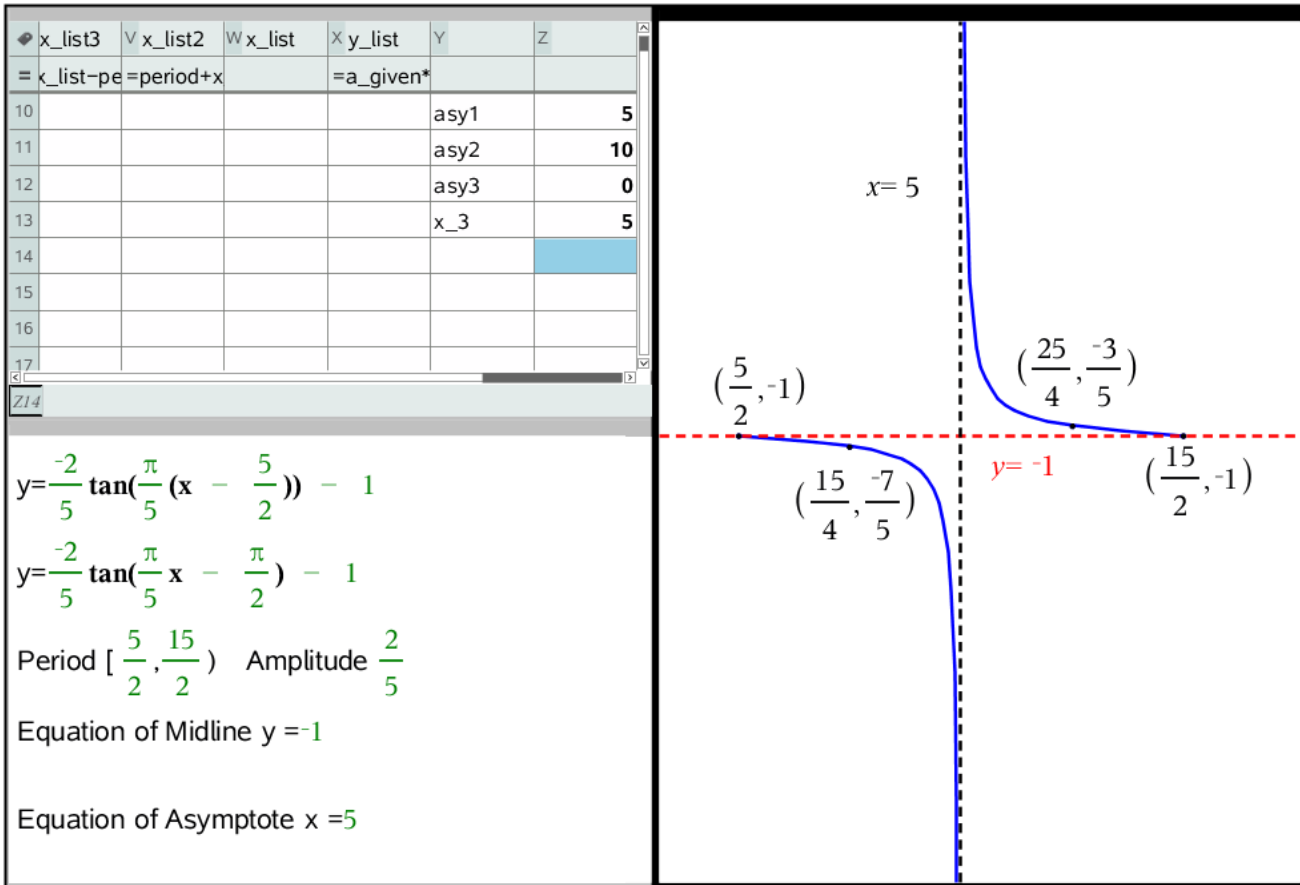
Period $\left[\frac{-4\pi}{3}, \frac{2\pi}{3}\right)$ "Amplitude" 3

Equation of Midline $y = 2$

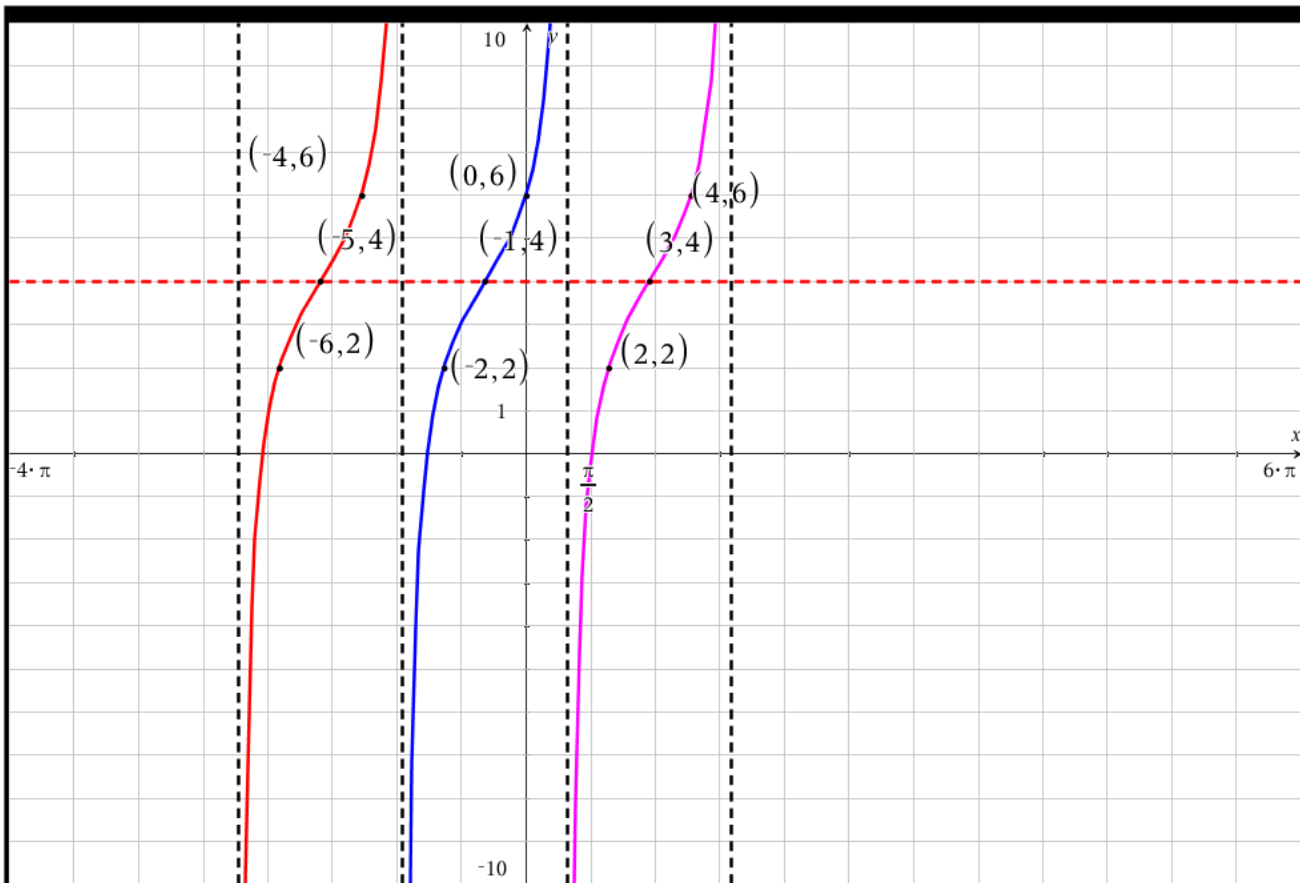
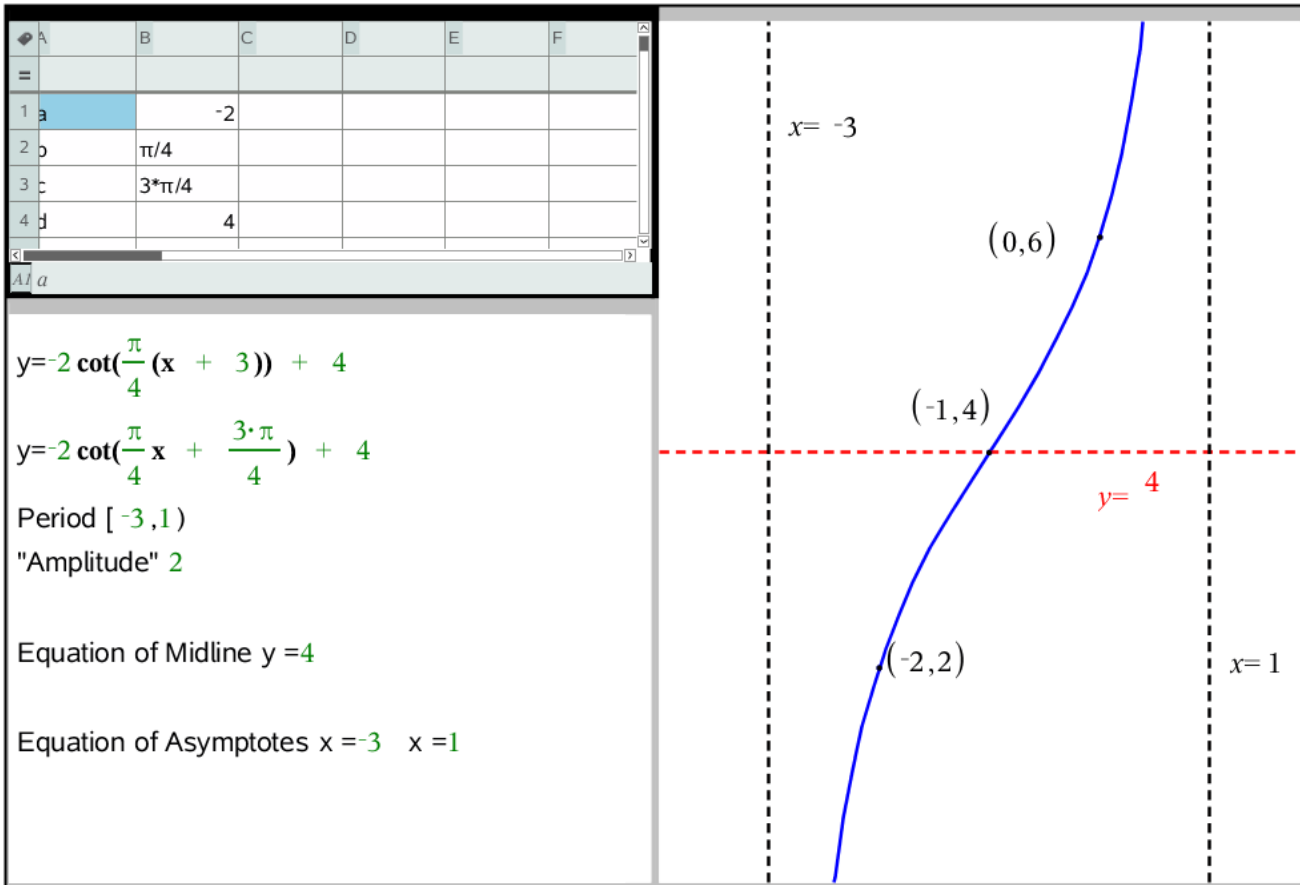
Equation of Asymptote $x = \frac{-\pi}{3}$



tangent transformations 2



cotangent transformations 1



cotangent transformations 2

	A	B	C	D	E	F
1	a		1/2			
2	b		3			
3	c	$\pi/8$				
4	d		-2			

$$y = \frac{1}{2} \cot\left(3\left(x + \frac{\pi}{24}\right)\right) - 2$$

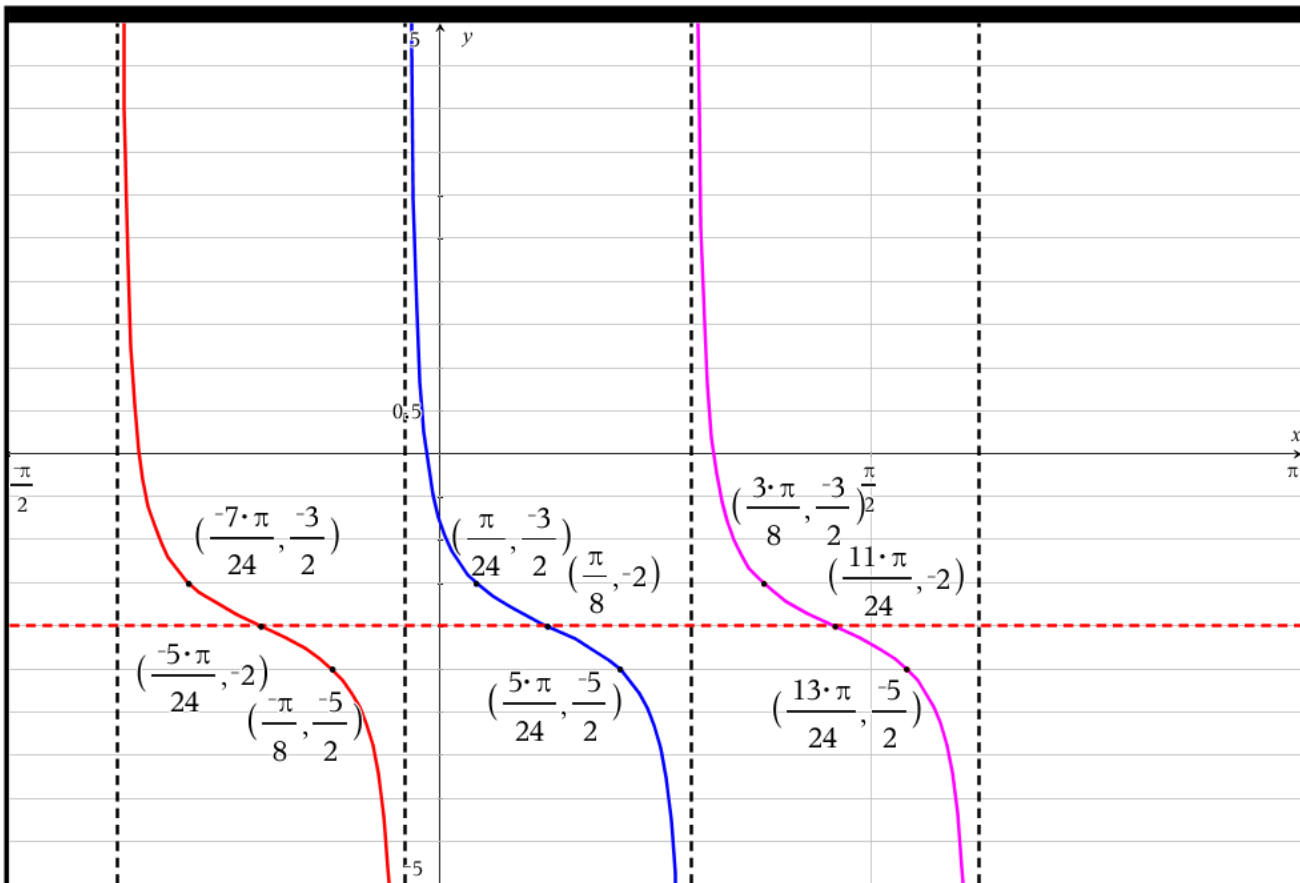
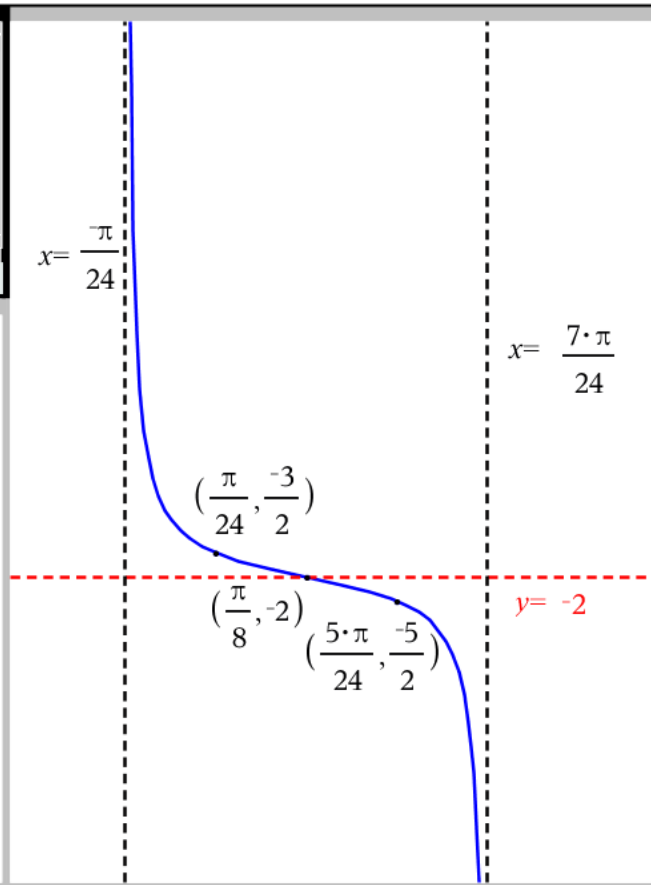
$$y = \frac{1}{2} \cot\left(3x + \frac{\pi}{8}\right) - 2$$

$$\text{Period} \left[\frac{-\pi}{24}, \frac{7\pi}{24} \right)$$

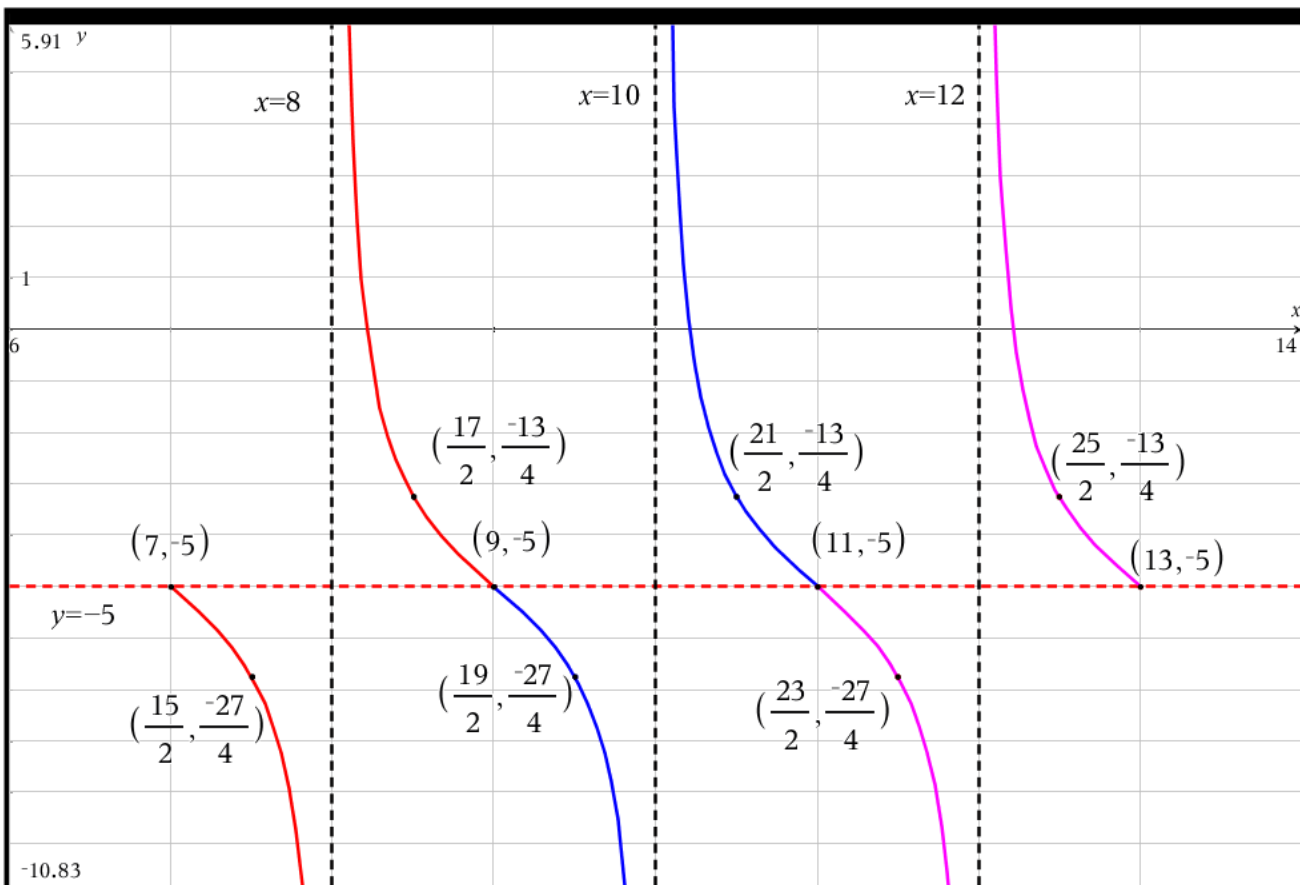
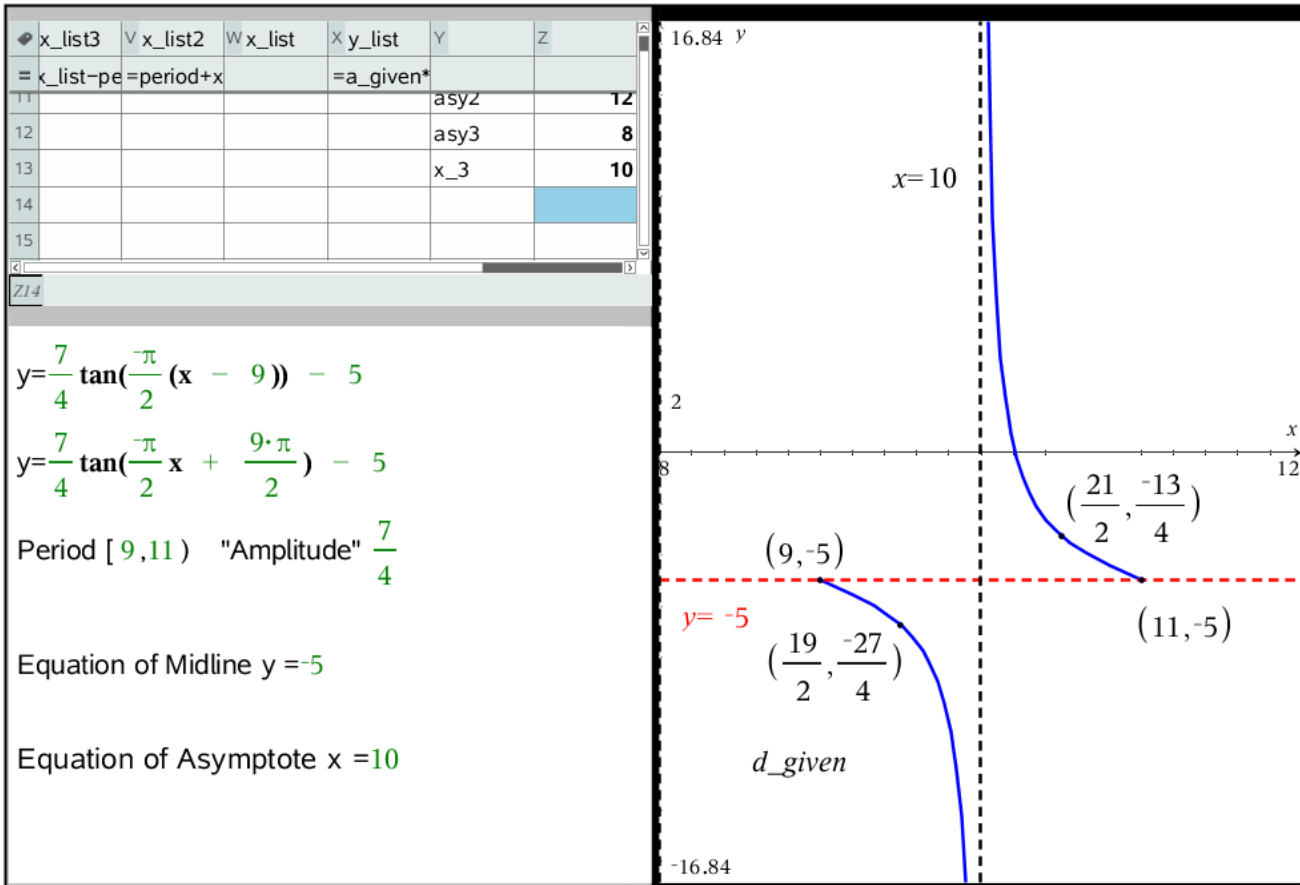
$$\text{"Amplitude"} \frac{1}{2}$$

$$\text{Equation of Midline } y = -2$$

$$\text{Equation of Asymptotes } x = \frac{-\pi}{24} \quad x = \frac{7\pi}{24}$$



tangent transformations 3



cotangent transformations 3

