

tangent transformations 1

	A	B	C	D
=				
1	a		6	
?	b	$4*\pi$		
A1	a			

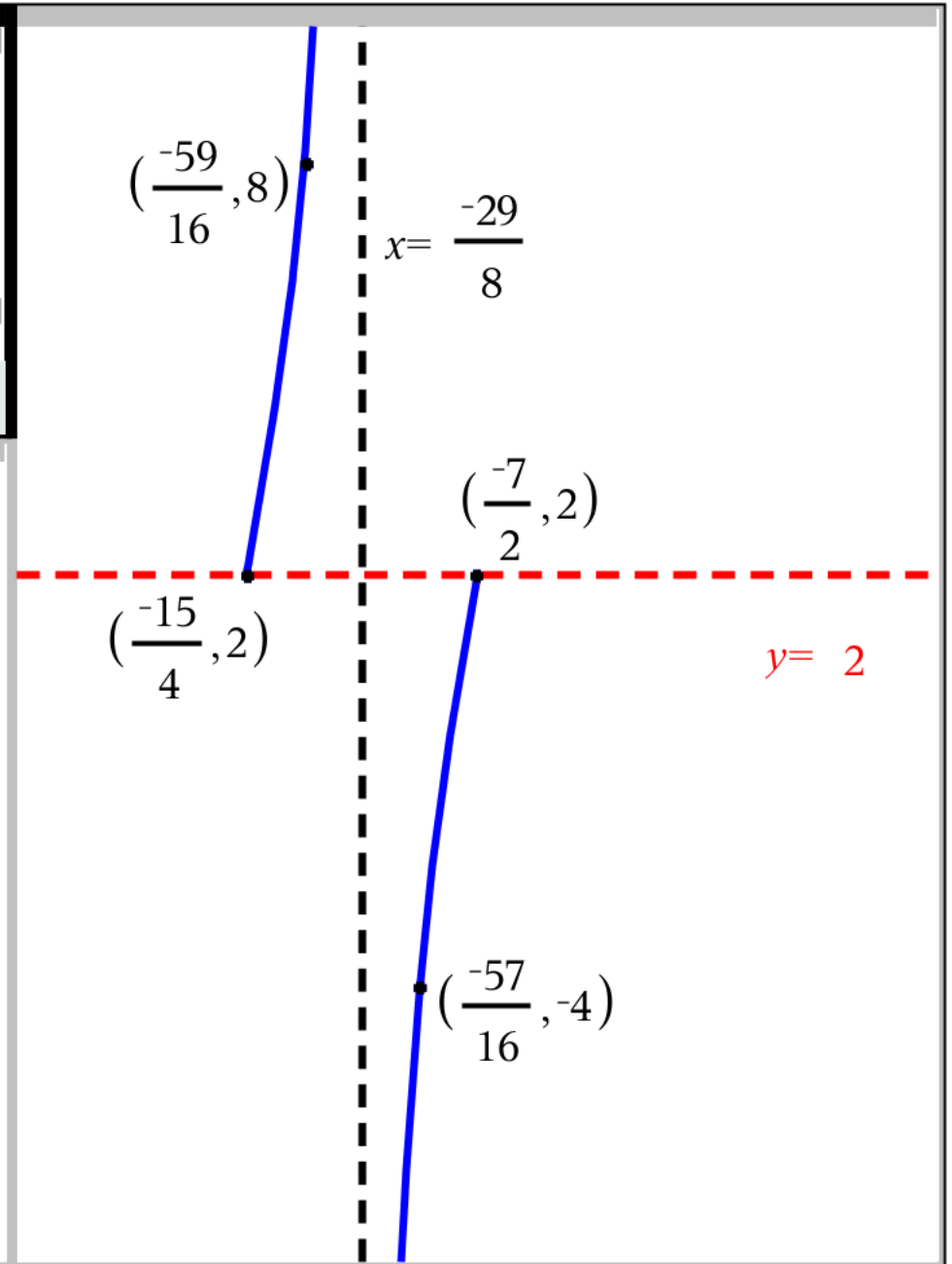
$$y = 6 \tan\left(4 \cdot \pi \left(x + \frac{15}{4}\right)\right) + 2$$

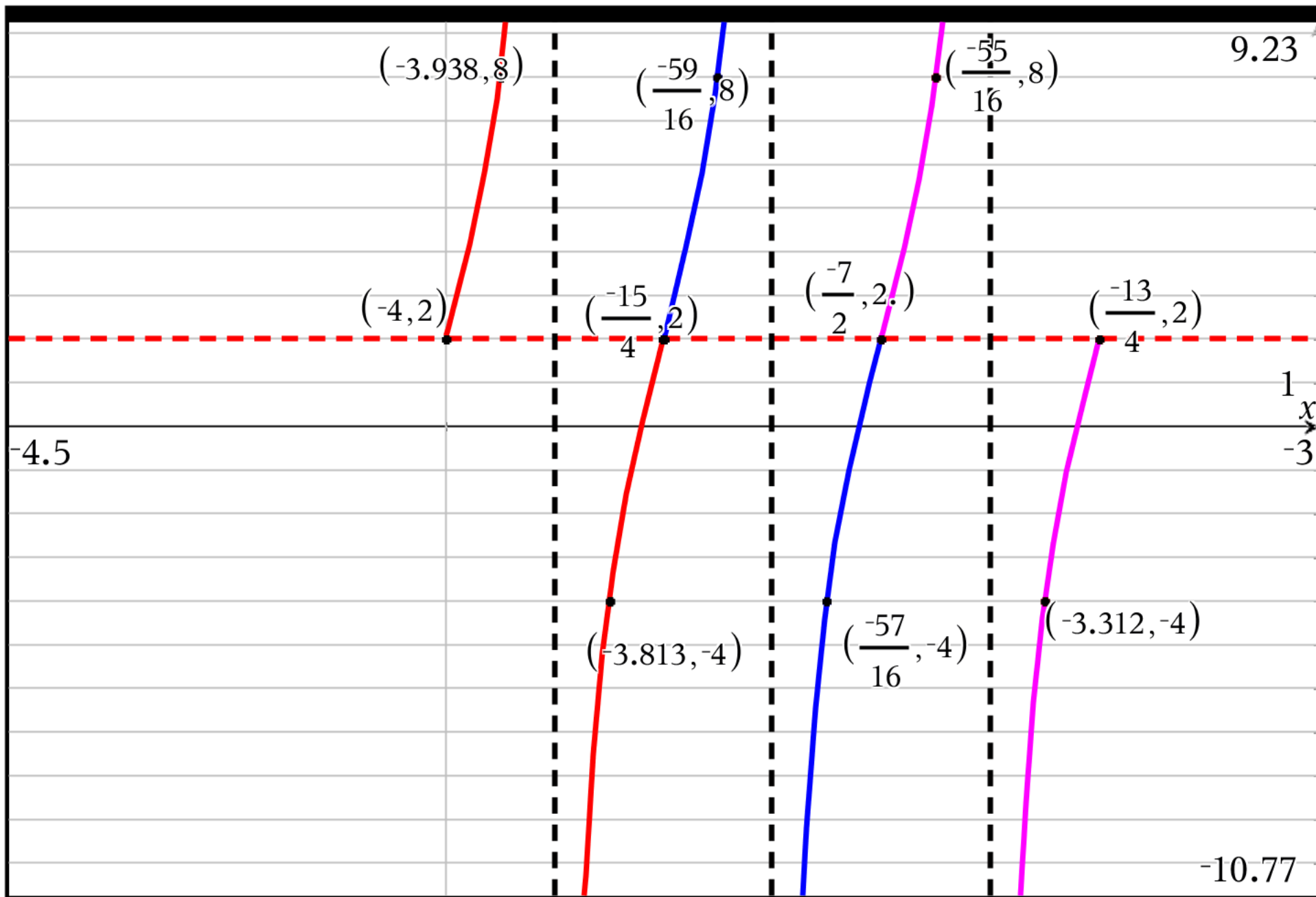
$$y = 6 \tan(4 \cdot \pi x + 15 \cdot \pi) + 2$$

Period  $\left[\frac{-15}{4}, \frac{-7}{2}\right)$  "Amplitude" 6

Equation of Midline  $y = 2$

Equation of Asymptote  $x = \frac{-29}{8}$





tangent transformations 2

	A	B	C	D
=				
1	a	-5/4		
2	b	2/5		
3	c	-6*π/5		
4	d			

A1 a

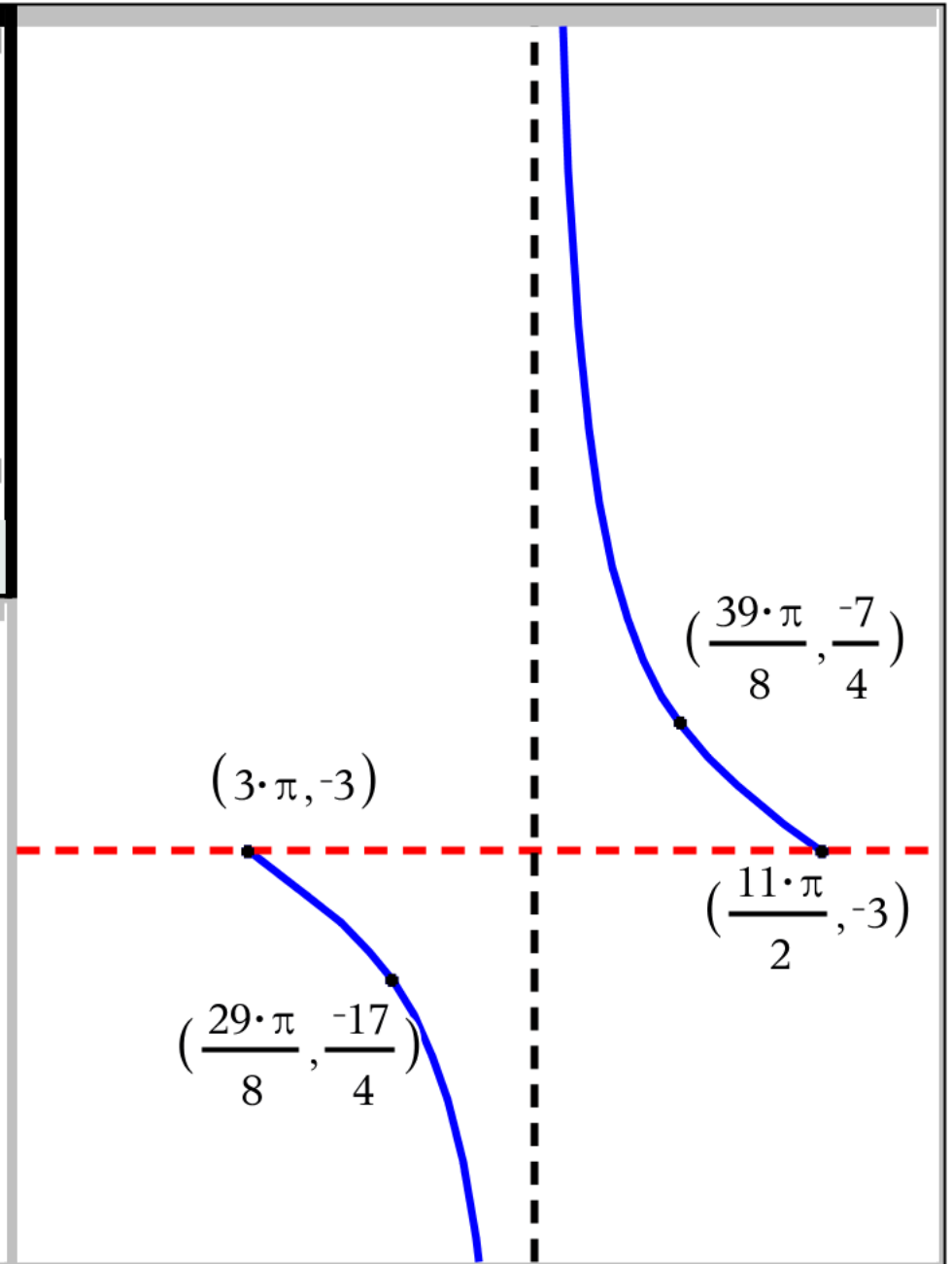
$$y = \frac{-5}{4} \tan\left(\frac{2}{5}(x - 3 \cdot \pi)\right) - 3$$

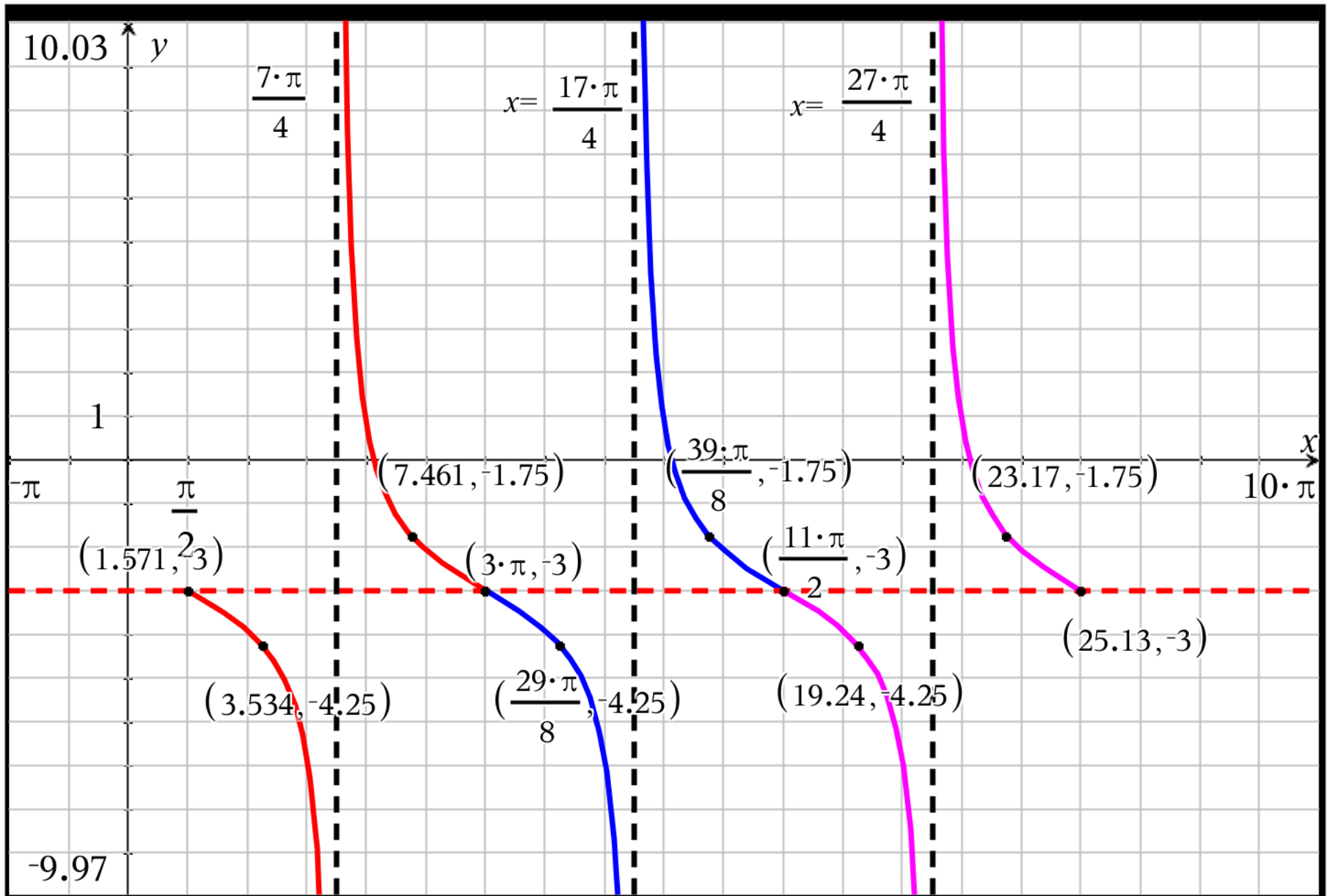
$$y = \frac{-5}{4} \tan\left(\frac{2}{5}x - \frac{6 \cdot \pi}{5}\right) - 3$$

Period  $\left[3 \cdot \pi, \frac{11 \cdot \pi}{2}\right)$  Amplitude  $\frac{5}{4}$

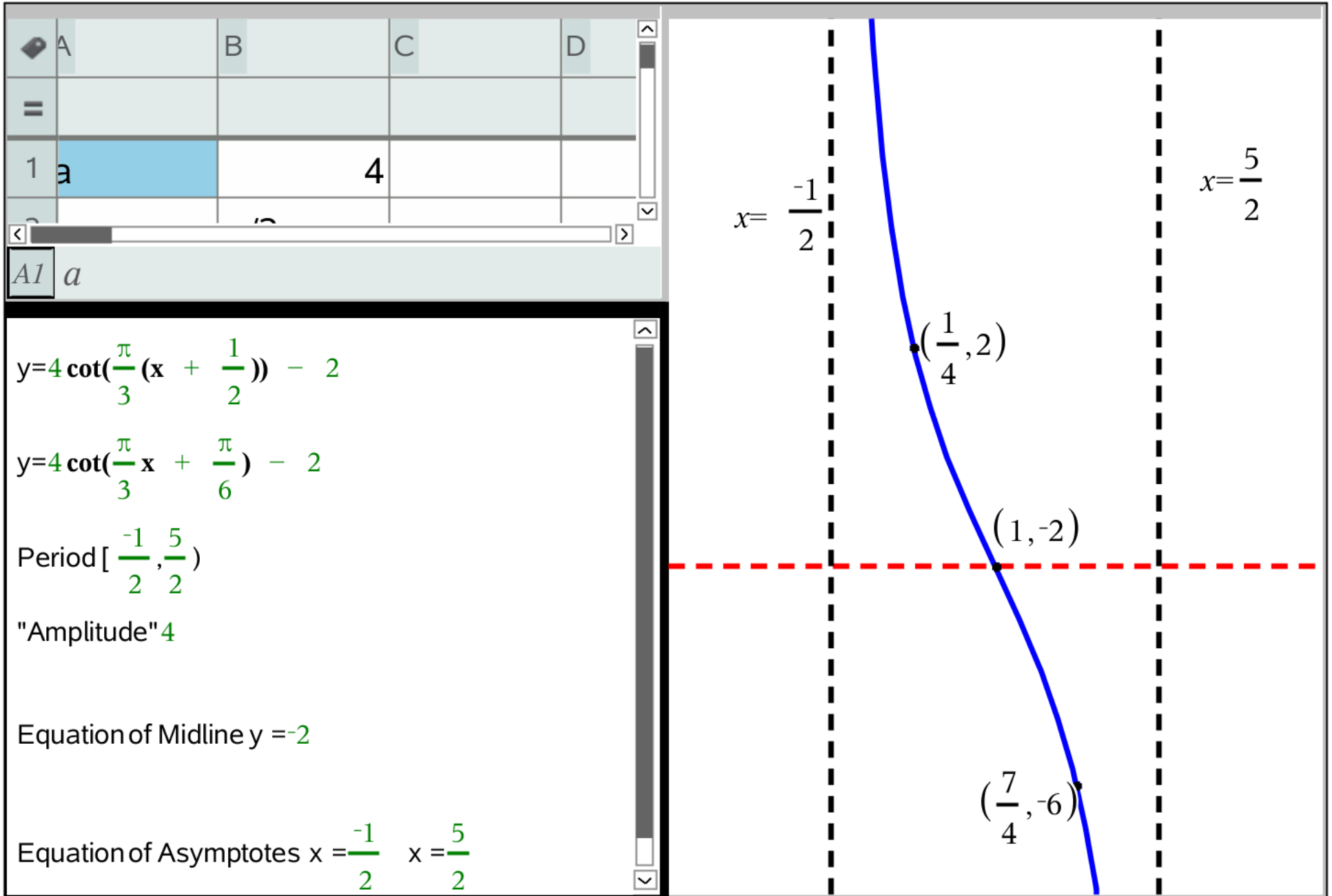
Equation of Midline  $y = -3$

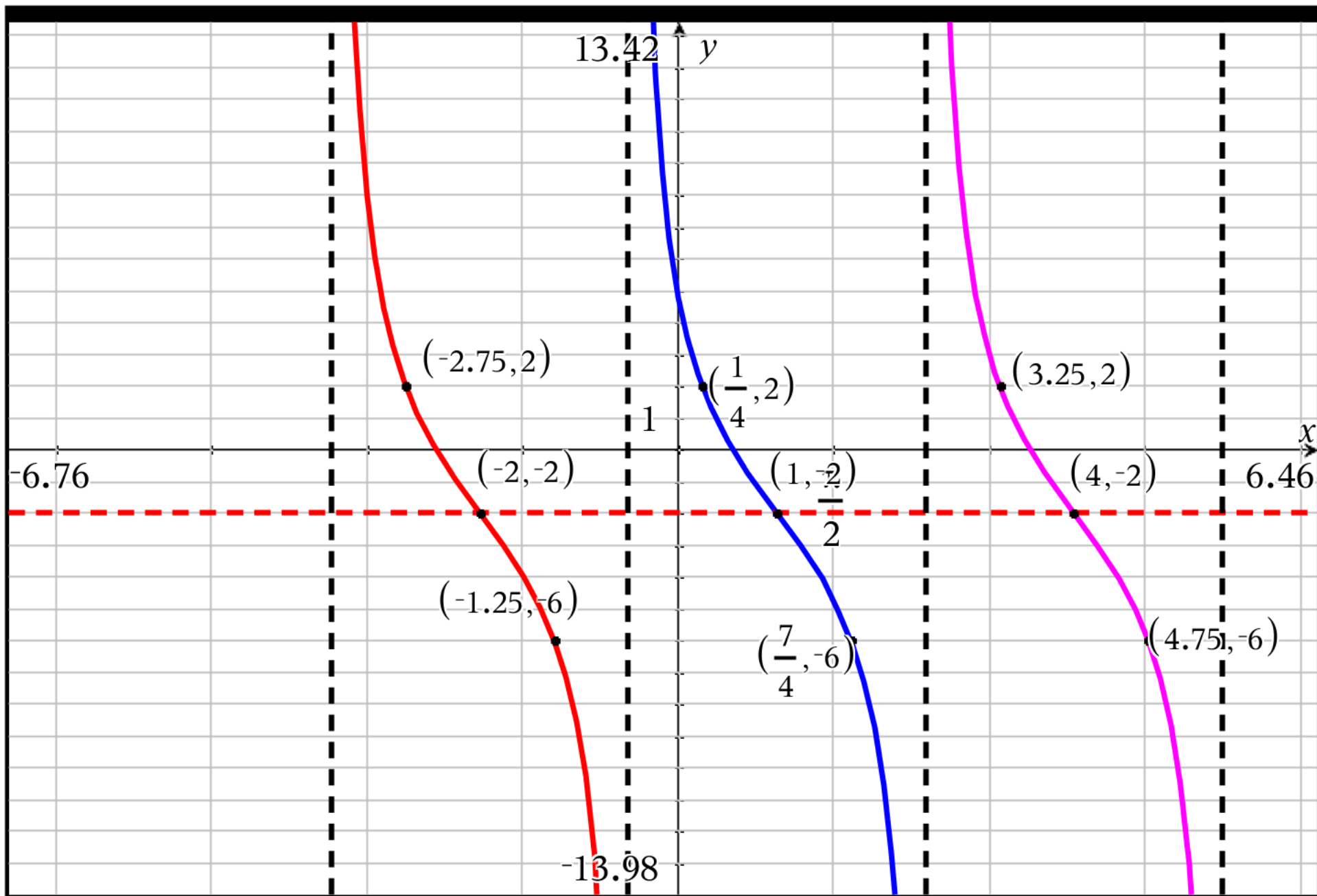
Equation of Asymptote  $x = \frac{17 \cdot \pi}{4}$



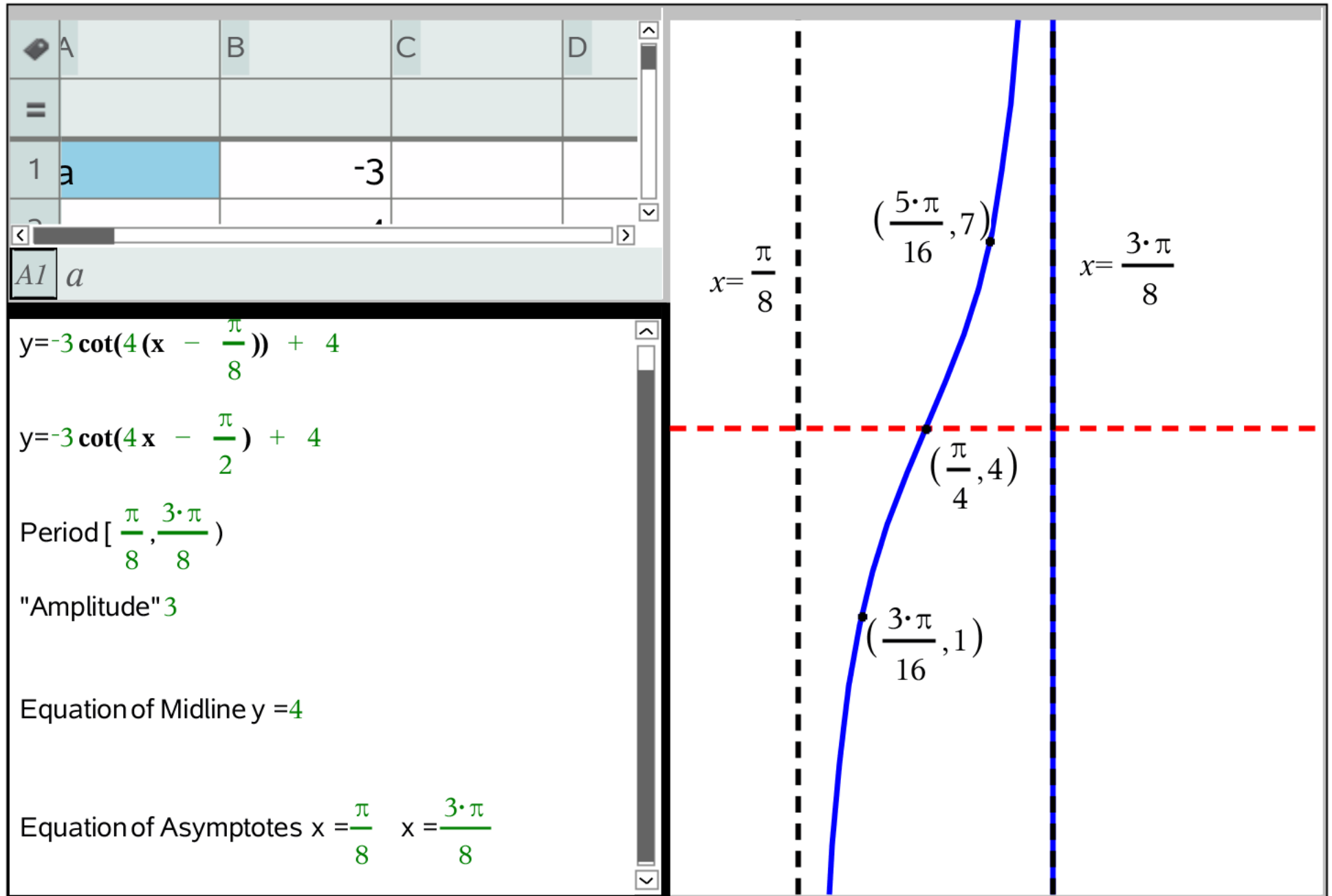


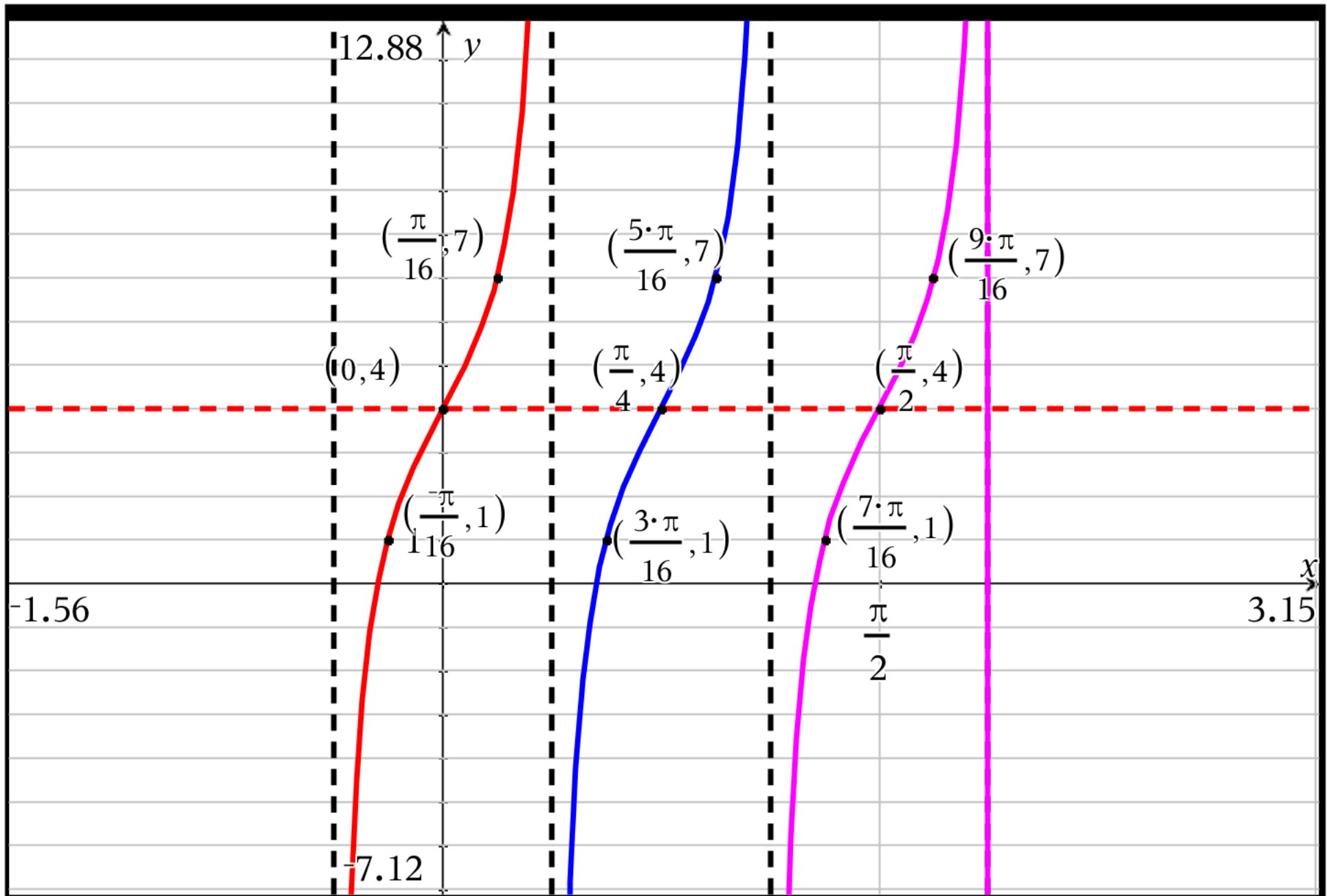
cotangent transformations 1





cotangent transformations 2







tangent transformations 3

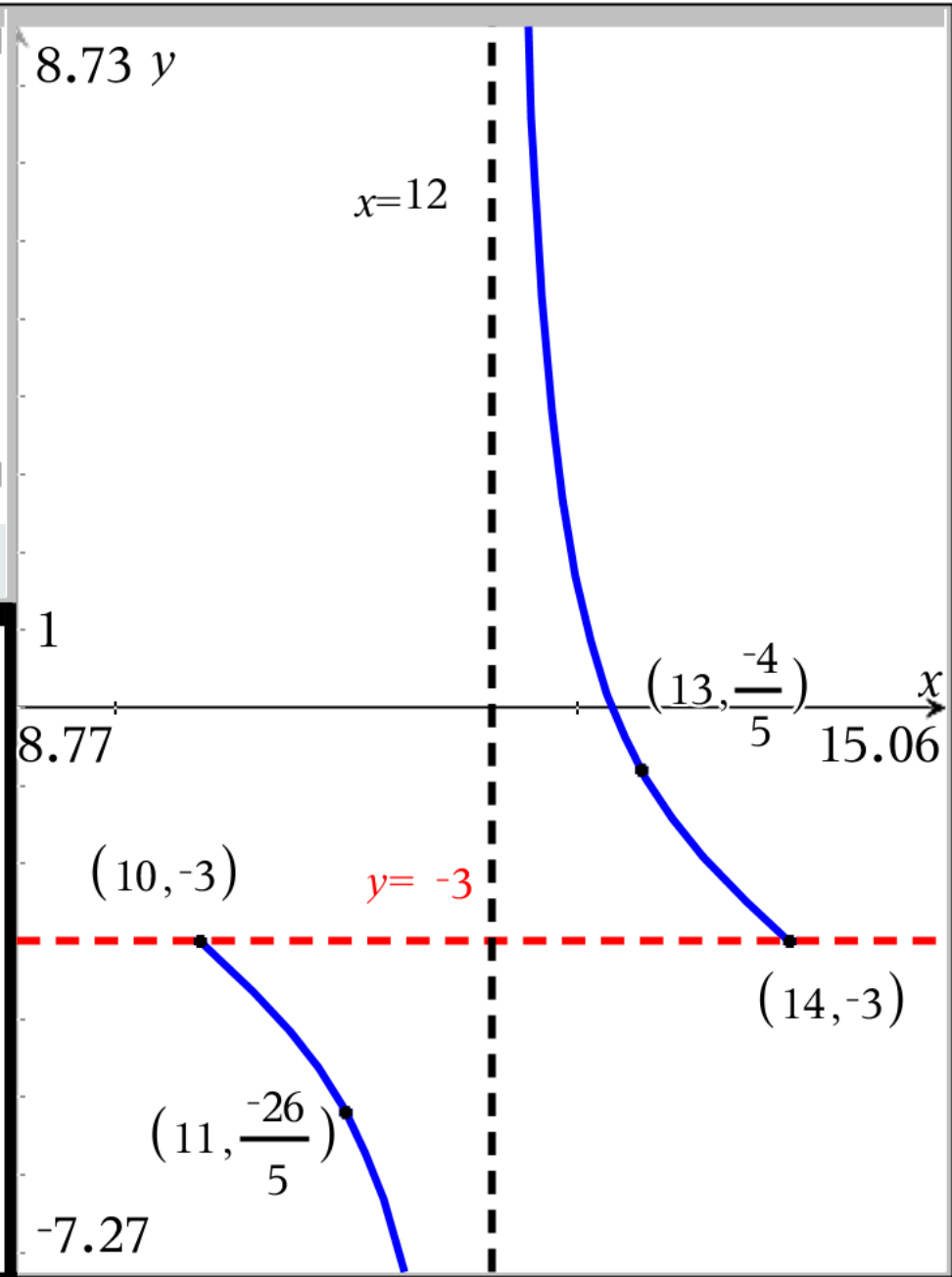
	A	B	C	D
=				
1	a	11/5		
2	b	$-\pi/4$		
3	c	$10 \cdot \pi/4$		

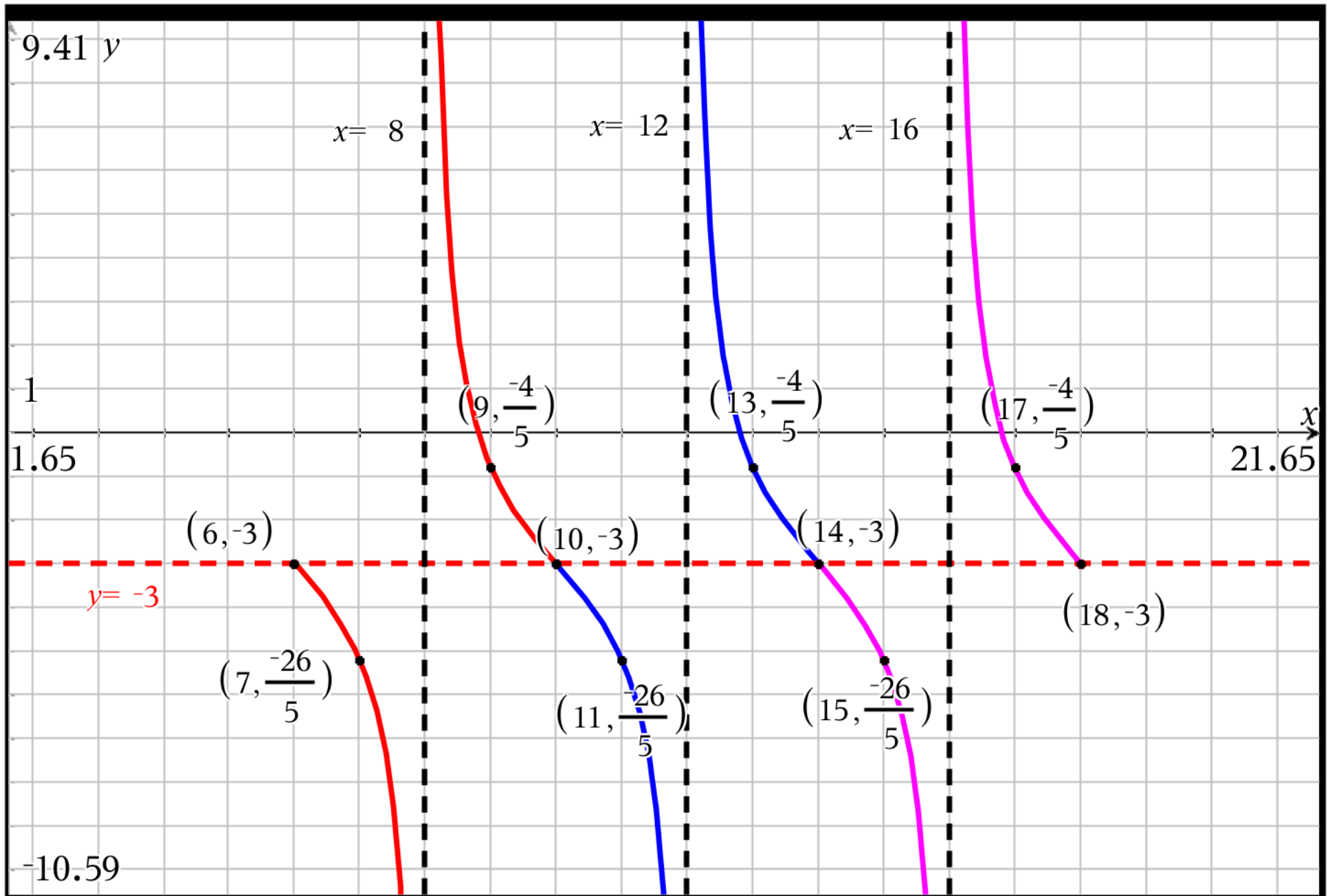
A1 a

$$y = \frac{11}{5} \tan\left(\frac{-\pi}{4}(x - 10)\right) - 3$$

$$y = \frac{11}{5} \tan\left(\frac{-\pi}{4}x + \frac{5 \cdot \pi}{2}\right) - 3$$

Period [ 10 , 14 )    Amplitude  $\frac{11}{5}$   
 Equation of Midline  $y = -3$   
 Equation of Asymptote  $x = 12$





cotangent transformations 3

