

For the following trig functions, determine the amplitude, period, phase shift, vertical shift, general equation of the vertical asymptotes, and then sketch the graph.

1)  $y = 1.5 \tan \frac{1}{2} \left( x - \frac{\pi}{4} \right) - 1$

Amp\_\_\_\_\_

Period\_\_\_\_\_

P.S.\_\_\_\_\_

V.S.\_\_\_\_\_

V.A.\_\_\_\_\_

2)  $y = 0.5 \cot \left[ 2 \left( x + \frac{3\pi}{4} \right) \right] + 1$

Amp\_\_\_\_\_

Period\_\_\_\_\_

P.S.\_\_\_\_\_

V.S.\_\_\_\_\_

V.A.\_\_\_\_\_