

Name:.....Serial#:.....Sec #:.....

Q.1: Find the period, amplitude, phase shift and vertical shift of $y = 2 - 3 \sin \left(2\pi x + \frac{1}{2} \right)$

Q.2: Find Vertical Asymptotes, Zeros, Period phase shift and vertical shift of the graph of $y = 2 \tan \left(\frac{3x}{2} - \frac{2}{3} \right) + 4$.

Q.3: Verify the Identity $\frac{\sec x + \tan x}{\sec x - \tan x} = \sec^2 x + 2 \sec x \tan x + \tan^2 x$.