PROBLEM:

Let x[n] be the complex exponential

If we define a new signal
$$y[n]$$
 to be the first difference: $y[n] = x[n] - x[n-1]$, it is possible to express

y[n] in the form

 $x[n] = e^{j(0.4\pi n - 0.5\pi)}$

 $y[n] = Ae^{j(\omega_0 n + \phi)}$

 $y[n] = Ae^{3/4}$ Determine the numerical values of A, ϕ and ω_0 . (Should ω_0 be equal to 0.4π ?)