

1- $\frac{d^2x}{dt^2} = -\frac{g}{L}x$, $\frac{dx}{dt} = 0$, $x = 0$, $\frac{d^2x}{dt^2} = -\frac{g}{L}x$, $\frac{dx}{dt} = 0$, $x = 0$, $\frac{d^2x}{dt^2} = -\frac{g}{L}x$, $\frac{dx}{dt} = 0$, $x = 0$, $\frac{d^2x}{dt^2} = -\frac{g}{L}x$, $\frac{dx}{dt} = 0$, $x = 0$.

2- $\frac{d^2x}{dt^2} = -\frac{g}{L}x$, $\frac{dx}{dt} = 0$, $x = 0$, $\frac{d^2x}{dt^2} = -\frac{g}{L}x$, $\frac{dx}{dt} = 0$, $x = 0$, $\frac{d^2x}{dt^2} = -\frac{g}{L}x$, $\frac{dx}{dt} = 0$, $x = 0$.

3- $\frac{d^2x}{dt^2} = -\frac{g}{L}x$: $\frac{dx}{dt} = 0$, $x = 0$, $\frac{d^2x}{dt^2} = -\frac{g}{L}x$, $\frac{dx}{dt} = 0$, $x = 0$, $\frac{d^2x}{dt^2} = -\frac{g}{L}x$, $\frac{dx}{dt} = 0$, $x = 0$.