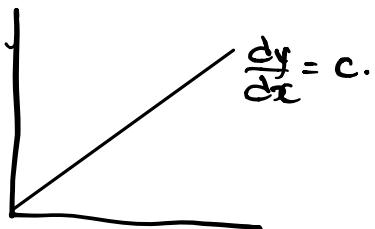

PROBLEM #1

Imagine you place one end of a waterhose in a pool and turn on the tap. Water pours at a constant rate causing a pool to fill at a constant rate.

Plot the pools volume of water over time.

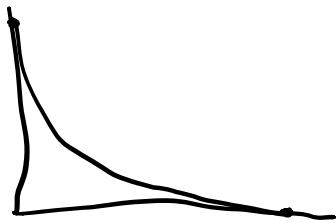


PROBLEM #2.

Water cools down at a rate proportional to its temp.

The hotter water is the quicker it will cool down.

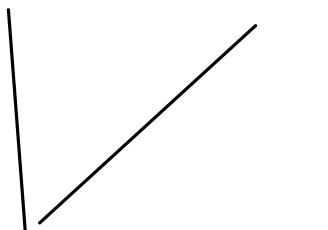
Graph the temp. of really initially hot water over time.



PROBLEM #3.

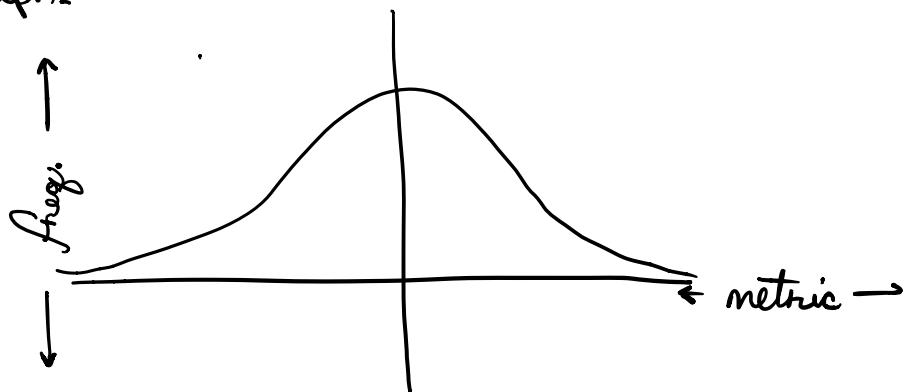
Gravity accelerates mass in freefall.

Graph the acceleration of a mass over time in freefall.



PROBLEM # 4.

Given frequencies with a central tendency and rarity in deviation from the centrality of the distribution graph.



PROBLEM # 5.

Given a perpetual oscillation with a periodicity of $\frac{1}{2}$ sec graph the oscillation beginning at either terminus of the oscillation.

