

Average Value

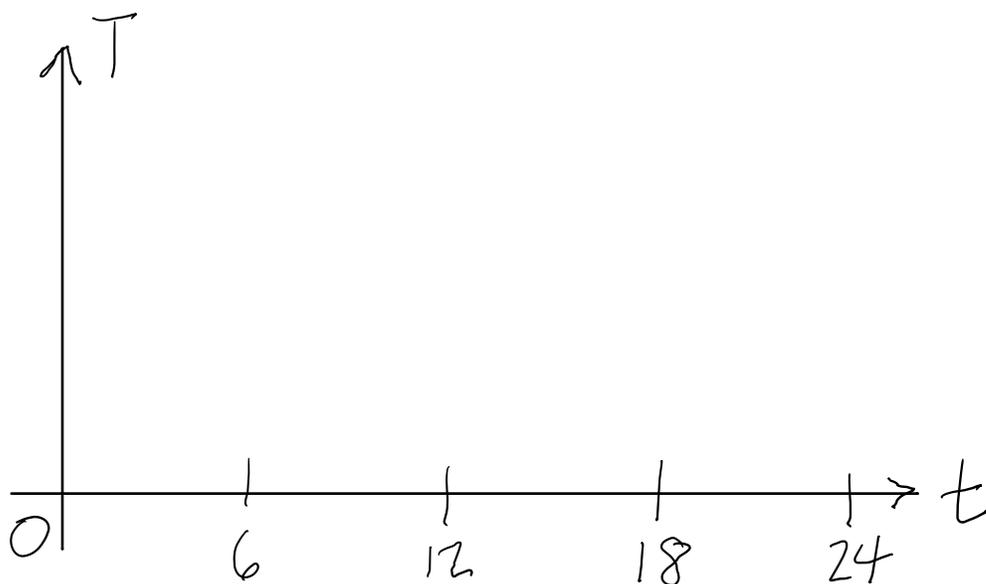
With a _____ of numbers, to find its _____:

$$y_{AVG} =$$

where n represents _____

With _____, need a new plan.

e.g.,



ex. find average value of

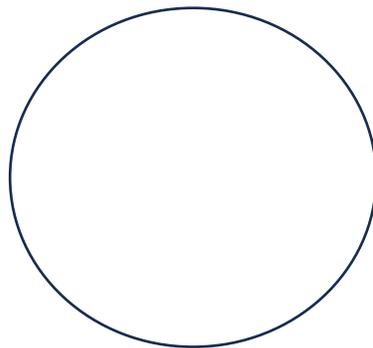
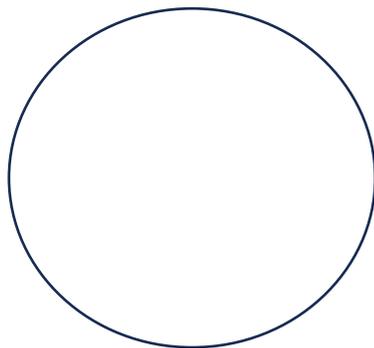
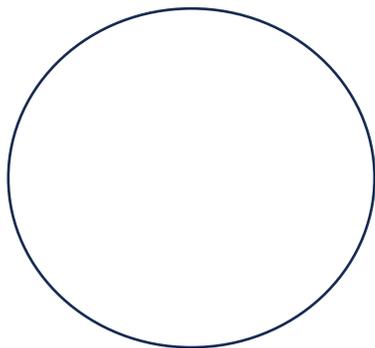
$$f_{AVG} = \frac{1}{b-a} \int_a^b f(x) dx$$

Do: find average value of

ex. find average value of

Do: find average value of

Arc Length



ex. setup the length of the arc of

ex: set up length of curve for

ex.: find exact length of curve for

ex. find exact length of curve for