

Assume Marissa pays \$3600 into her IRA each year with an annual interest rate of 6.6%. Write a function for her similar to the one you wrote for Remy where x is the number of years for which she saves:

$f(x) =$ _____

Then Use the space here to graph her function by plotting six points, as you see below, and connecting them with smooth lines to approximate a curve:

Input/Output _____ (x,y) point

$f(1) =$ _____

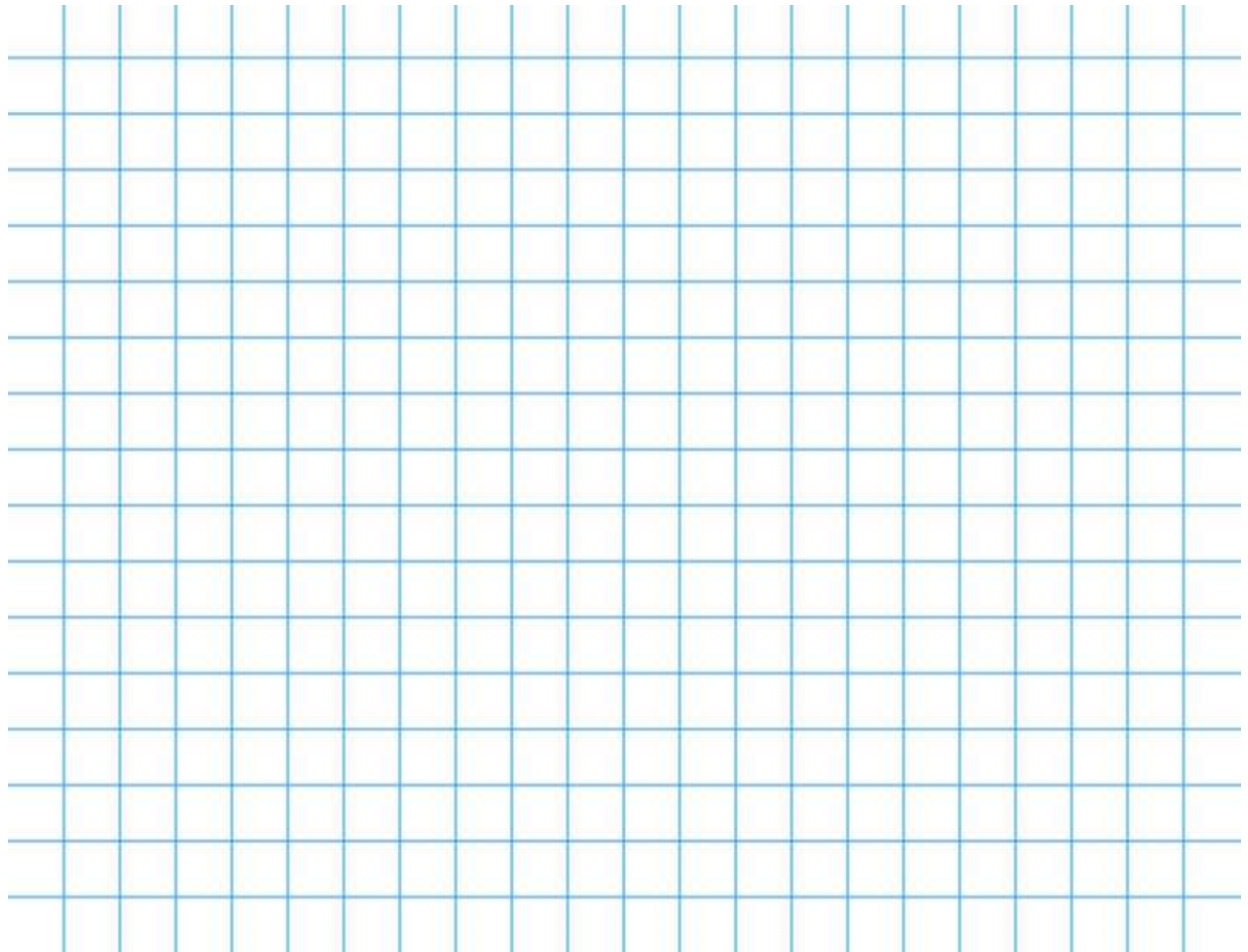
$f(10) =$ _____

$f(20) =$ _____

$f(30) =$ _____

$f(40) =$ _____

$f(46) =$ _____

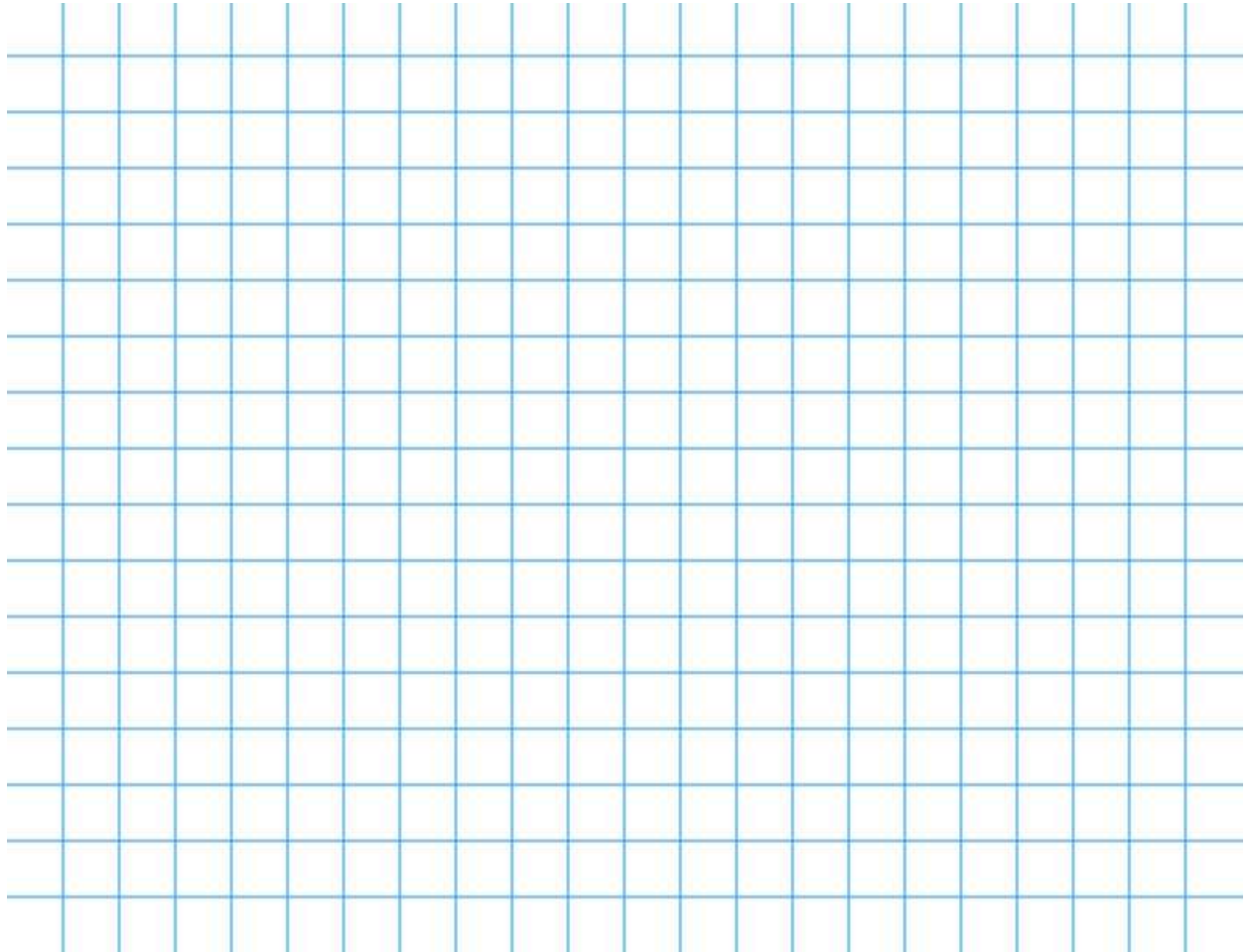


Re-do the work for side 1 but assume the contribution and interest are applied **monthly**. She still has a 6.6% annual interest rate. You will need a new function. Write it below:

(What will the **C** be? What will the **r** be? What will you have to do to the **n** value?)

$$f(x) =$$

Then use the space here to graph her function by plotting six points to represent the same six time values as you did on the front side. The first is to represent 1 year, the second represents 10 years, etc. Connect them with smooth lines to approximate a curve:



Input/Output (x,y) point

$$f(\quad) = \underline{\hspace{2cm}}$$

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When you come to class, be ready to explain who saved more and why, using evidence and reasoning to support your answer.