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## Project - How to Become a Millionaire Annuities and Compound Interest

This project has 2 parts, a group part and an individual part.
Group Part - (5 points)
You just graduated from college and you have decided to start saving for retirement. You think back to your Algebra 1b teacher and remember that you were taught about Annuities.

You decide to save $\$ 3000$ each year into an Annuity (only $\$ 250$ per month) and figure that the long term "interest rate" in the Stock Market will easily earn $9 \%$.

Formula:
Balance $=P\left(\frac{(1+r)^{t}-1}{r}\right)$.

Where: Balance $=$ amount of money after $t$ years
$\mathrm{P}=$ amount of money invested each year
$t=$ number of years
$r=$ interest rate percent (in decimal)

## Let's simplify the formula below

Make a table for $\{0,10,20,30,40,50\}$ years


Your group must add this graph to your "How to become a Millionaire" graph for the classroom. It will be graded on the following criteria:

- Accuracy
- Neatness
- Correct Scale for Axes


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