2-5. The average annual salary of a city employee in Exponentville is given in the table below:

Year	2000	2003	2006	2009	2012
Salary ($)	41 000	46 000	52 000	58 500	69 000

41K 46K 52K

Call yr 2000 yr zero
2003 yr 3
etc

a) Find the exponential equation of best fit.
b) Comment on how good the fit is.
c) Use your equation to find how long it will take for the average salary to reach $100 000.

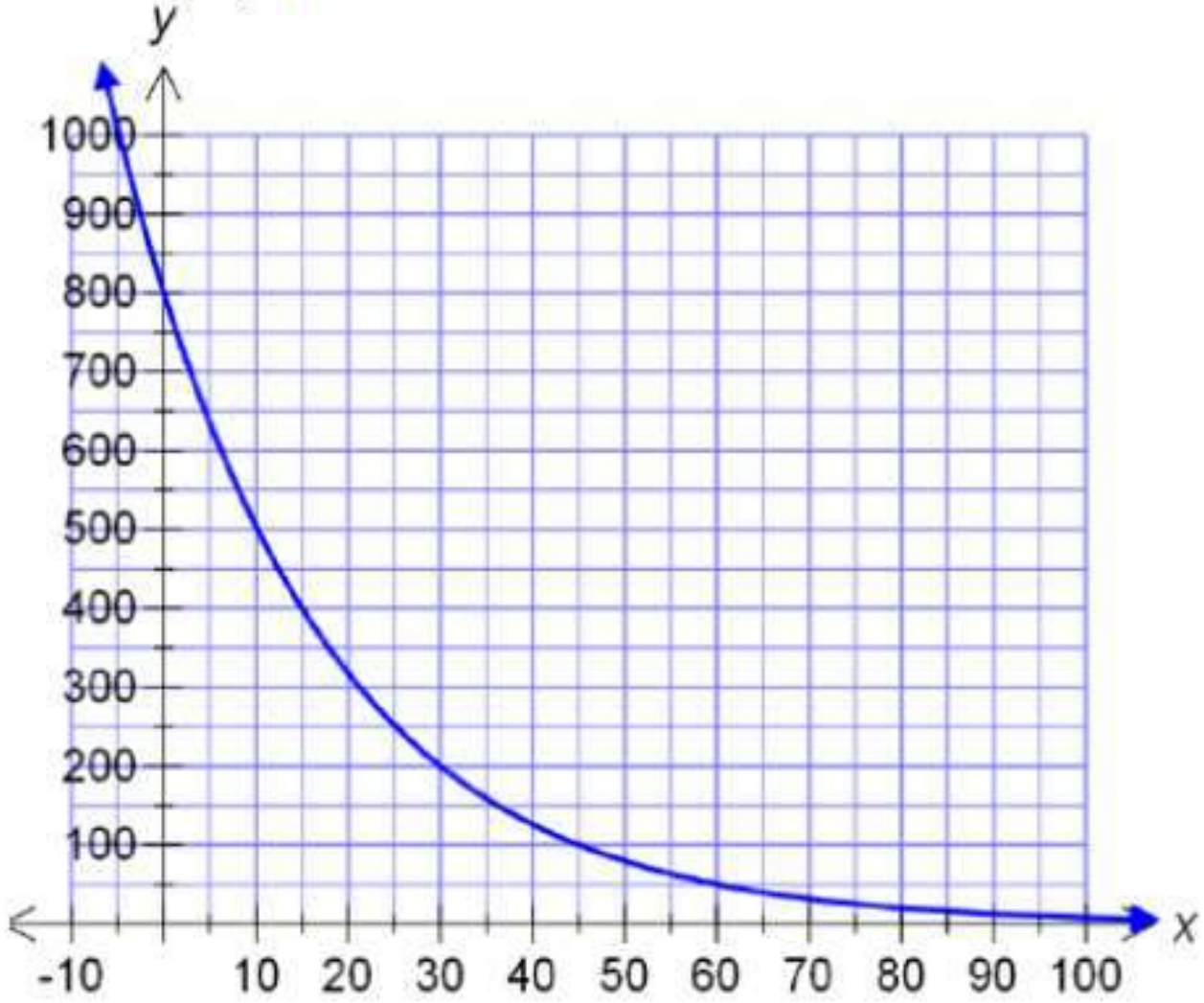
WARMUP/ Review

4-9. Pat & Rick decide to sell their popcorn locally and around Manitoba at various conventions. The number of daily sales they have is said to follow an exponential model. Some data is shown below:

Day	3	5	10	15	20	25	30
Sales	15	18	32	60	105	190	340

a) Find the exponential equation of best fit.
b) Comment on how good the fit is.
c) Use your equation find out how many customers they expect on the 12th day.
d) After how many days will Pat & Rick have 1000 daily sales?

4-6. Consider the graph below:



a) What is the equation of the function, f(x)? → can you do it without regression?

b) Find the value of y if x is 10; f(10).

c) At what value(s) of x is f(x) equal to 280?