



A small math class has six students. The class average on a test must be greater than 80 for the class to receive a prize from the teacher. Five of the students scored the following: 66, 70, 80, 84, 95. What is the lowest grade the sixth student must score for the average to be greater than 80?

A. 79 B. 80 C. 85 D. 86 E. 100

Last Week's Answer

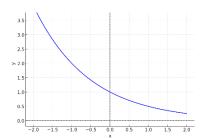
What kind of function would best model the data below, where x is the independent variable and y is the dependent variable?

x	-3	-2	-1	0	1	2	3	4
у	8	4	2	1	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{16}$

A. quadratic

B. linear

C. exponential D. rational E. absolute value



- Graphing, you would see a curve exponential in shape.
- Looking at the y-values, they are all powers of 2. To adjust for the signs of those powers, let $y = 2^{-x}$.
- Looking at a constant ratio between x and y, you will find a ratio of $\frac{1}{2}$, with an initial value of 1. You can rewrite this as $y = 1(\frac{1}{2})^x$ or $y = (\frac{1}{2})^x$.

Each week, we'll reveal the answer to the previous week's question!

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