

Examples & Questions Examples 1

Q: Consider the functions $f(x) = 2^x$ and $g(x) = 5\left(\frac{1}{2}\right)^x$. What information tells you whether the functions are increasing or decreasing?

Examples 2

Q: The point (1, 3) is on f(x). How does a reflection tell you what point will be on g(x)? Q: How does a translation of f(x) - 4 tell the new point on h(x)?

Examples 3

Q: What is the relationship between the numbers om the left side of the graphic and the expressions on the right side of the graphic?

Q: Why is the growth factor 1.013 rather than 0.013?

Examples 4

Q: Why is 0 < x < 10 a reasonable domain?

Q: The value of another car can be modeled by $y = 31 \cdot 0.77^x$. How does the value of this car compare to that of the value of the car given in the example?

Examples 5

Q: Why is the slope of the line containing two points on the graph of an exponential function considered the *average* rate of change?

Q: How else could you compare the two functions besides comparing their averate rate of change over the 5-year period?

Practice and Problem Solving

Complete MathXL for School: Practice and Problem Solving (online) Complete MathXL for School: Enrichment (online)

Challenge: #26 – key will be posted in Power School Learning.

Lesson Quiz 6.1