1. Write the equation of the inverse. Is the inverse a function? State the domain and range of both f(x) and $f^{-1}(x)$.



$$f(x) = 2\sqrt{x/-8} + 5$$

Yes, inverse is a function

Domain

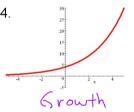
3. The value of a house in 2005 was \$225,000. The value of the hosue decreased 14.5%. Find the new value of the house.

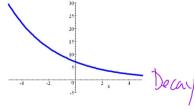
2. The value of an investment was \$74,500. The value increased 8.2%. Find the value of the investment now?

100% + 8.2% = 108.2%

Does each graph and equation represent exponential growth or decay?

4.





7.
$$y = 0.35(1.0021)^{x}$$

8.
$$y = 2(\frac{23}{24})^x$$
 becay