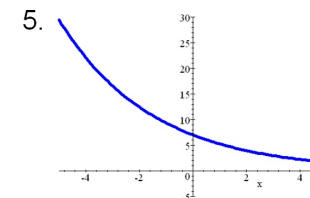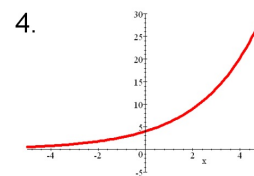1. Write the equation of the inverse. Is the inverse a function?   State the domain and range of both f(x) and f $^{-1}$(x).

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

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

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.

Does each graph and equation represent exponential growth or decay?

4.

5.

6. $y = 5000(0.0998)^x$

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

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