Kuta Software - Infinite Algebra 1

Exponential Functions

Evaluate each function at the given value.

1)
$$f(x) = \frac{1}{3} \cdot 6^x$$
 at $x = 2$
2) $f(n) = 10 \cdot 2^n$ at $n = 5$

3)
$$f(n) = 10 \cdot 2^n$$
 at $n = -2$
4) $g(x) = \frac{1}{5} \cdot \left(\frac{1}{3}\right)^x$ at $x = 3$

Sketch the graph of each function.





Name_____

Date_____ Period____







Write an equation for each graph.





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Exponential Functions

Evaluate each function at the given value.

1)
$$f(x) = \frac{1}{3} \cdot 6^x$$
 at $x = 2$
12
2) $f(n) = 10 \cdot 2^n$ at $n = 5$
320

3)
$$f(n) = 10 \cdot 2^n$$
 at $n = -2$
 $\frac{5}{2}$
4) $g(x) = \frac{1}{5} \cdot \left(\frac{1}{3}\right)^x$ at $x = 3$
 $\frac{1}{135}$

Sketch the graph of each function.



6)
$$f(x) = \frac{1}{2} \cdot \left(\frac{1}{3}\right)^{x}$$

Name_____

Date_____ Period____







Write an equation for each graph.

