Exponential Functions
03/01/2012

Student Name: _____
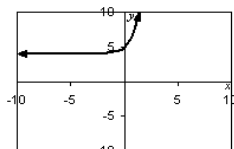
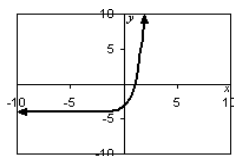**Class:** _____

Date: _____

Instructions: **Read each question carefully and select the correct answer.**

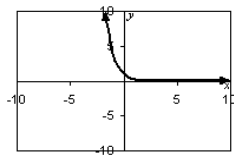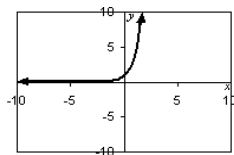**1.** Which graph represents the exponential function $y = 4^{-x}$?
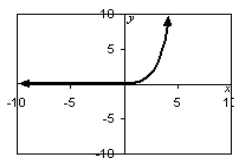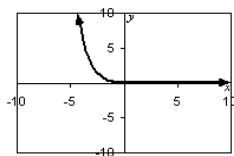
A.

B.

C.

D.

2. Which graph represents the exponential function $y = 0.1(3)^{-x}$?

A.
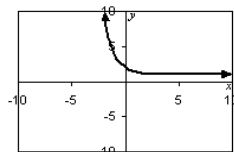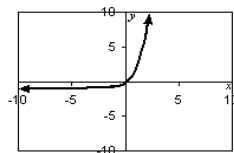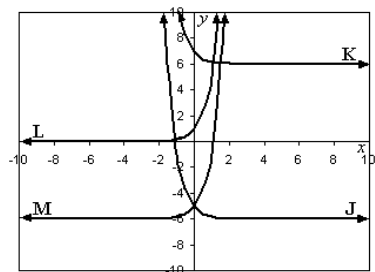
B.

C.

D.

3. Which graph represents the exponential function $y = 5^{-x} + 6$?

A.   J
B.   K
C.   L
D.   M

4. Compare the graph of $f(x) = 7^x$ and the graph of $g(x) = 7^{(x+5)} + 5$.

A. $g(x)$ shifts 5 units to the right and 5 units up from $f(x)$
B. $g(x)$ shifts 5 units to the left and 5 units up from $f(x)$
C. $g(x)$ shifts 5 units to the right and 5 units down from $f(x)$
D. $g(x)$ shifts 5 units to the left and 5 units down from $f(x)$