UNIT 5 WORKSHEET 5

Find the key point for each of the following functions. Refer to the notes for an example.

A) $f(x)=3^{x+2}-4$

B) $f(x)=\left(\frac{1}{2}\right)^{x-5}+1$

C) $f(x)=-2^{x}+3$

D) $f(x)=\left(\frac{5}{3}\right)^{x+2}-3$

E) $f(x)=-\left(\frac{1}{2}\right)^{x+7}+1$

F) $f(x)=3^{2x-3}+2$

G) $f(x)=\left(\frac{1}{5}\right)^{3-x}+6$

H) $f(x)=-3^{2x-1}-4$

I) $f(x)=5^{2-3x}-4$

J) $f(x)=2(3)^{x+1}-4$

K) $f(x)=-2(5)^{x+6}-7$

L) $f(x)=e^{x+3}-4$

M) $f(x)=-e^{x+2}+2$

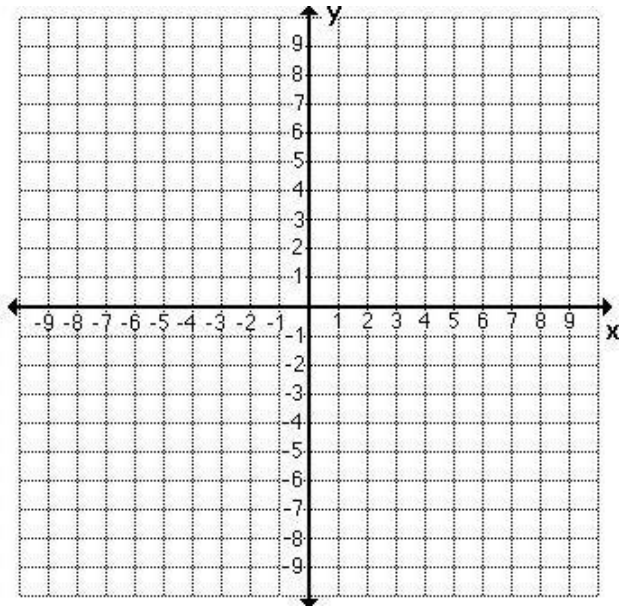
N) $f(x)=-\left(\frac{1}{3}\right)^{2x+1}+3$

O) $f(x)=2e^{x+3}+5$

Graph each of the following functions by setting up a table for x and y values. Label the key point for each of the functions. ***Do not worry about the intercepts right now.***

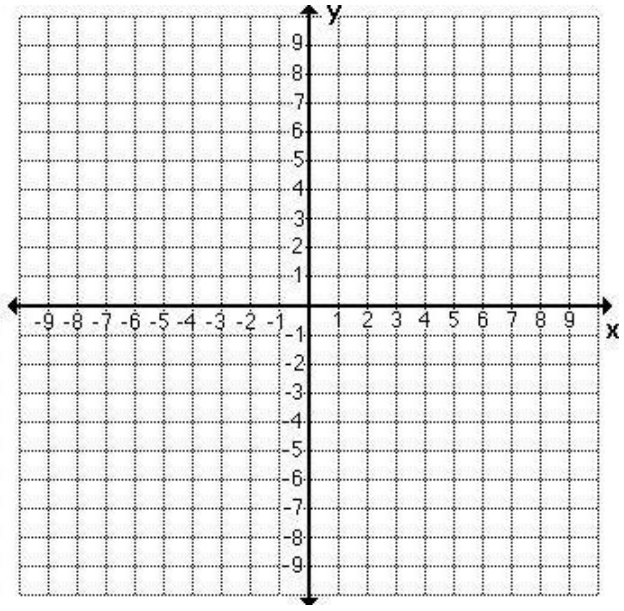
A) $f(x)=3^x$

x	$f_{(x)}$



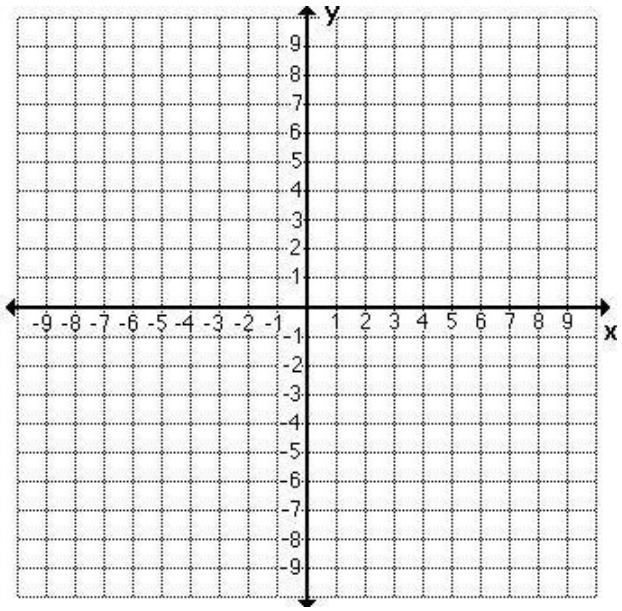
B) $f(x)=\left(\frac{1}{2}\right)^x$

x	$f_{(x)}$



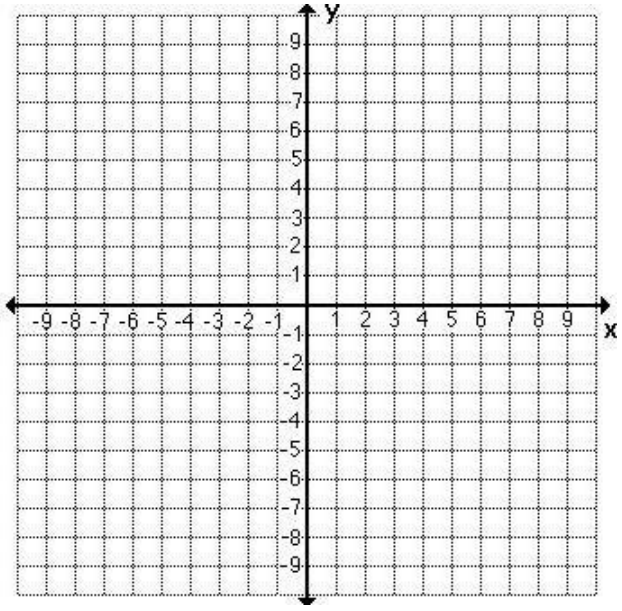
C) $f(x) = 2^{x+1}$

x	$f_{(x)}$



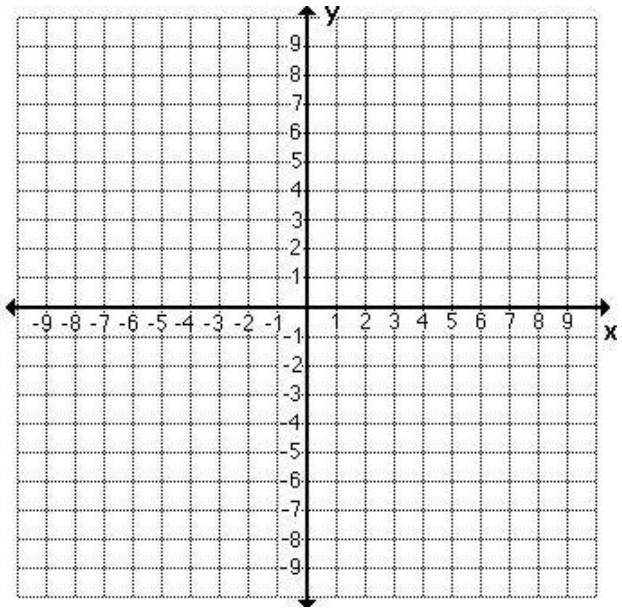
D) $f(x) = \left(\frac{1}{3}\right)^{x-3}$

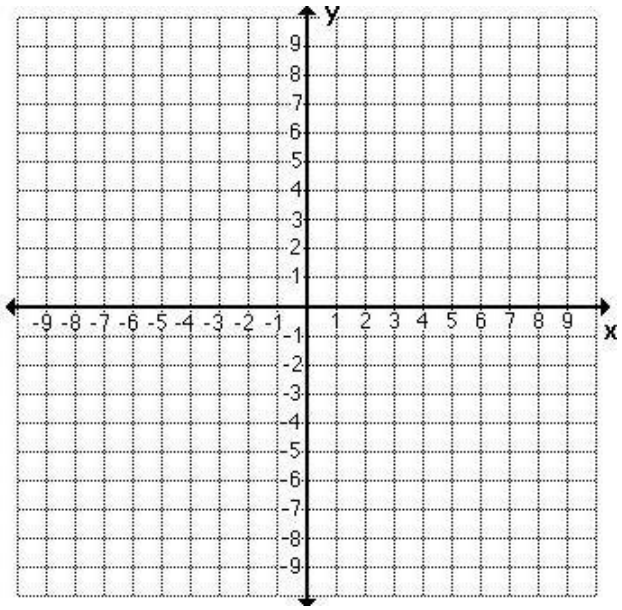
x	$f_{(x)}$



E) $f(x) = -2^x$

x	$f_{(x)}$



F) $f(x) = 3^{x+2} + 3$

x	$f_{(x)}$