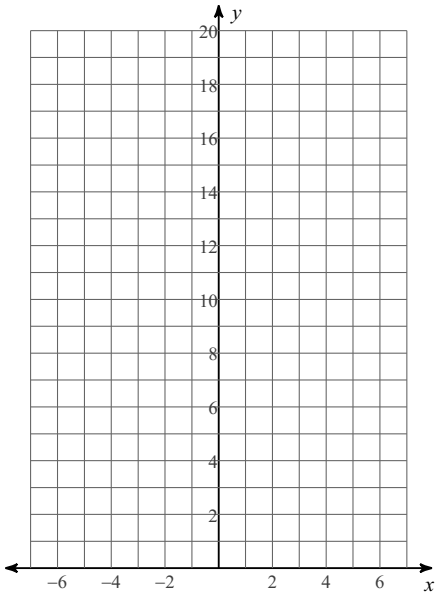
Graphs of Exponential Equations

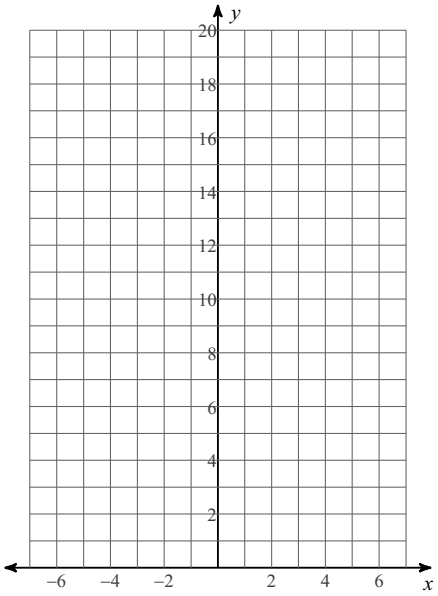
Date_____ Period____

Sketch the graph of each function.

1) $f(x) = 3 \cdot 2^x$

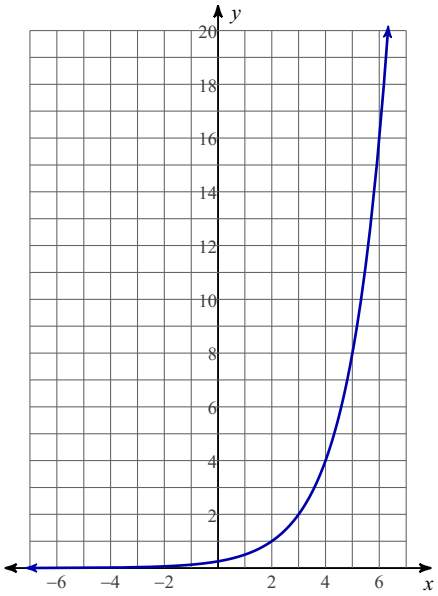


2) $f(x) = 4 \cdot \left(\frac{1}{2}\right)^x$

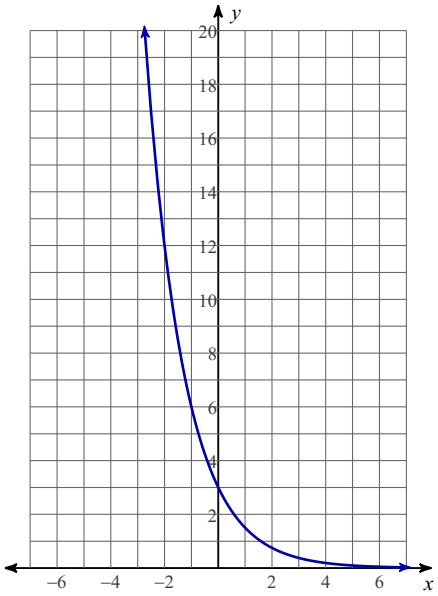


Write an equation for each graph.

3)

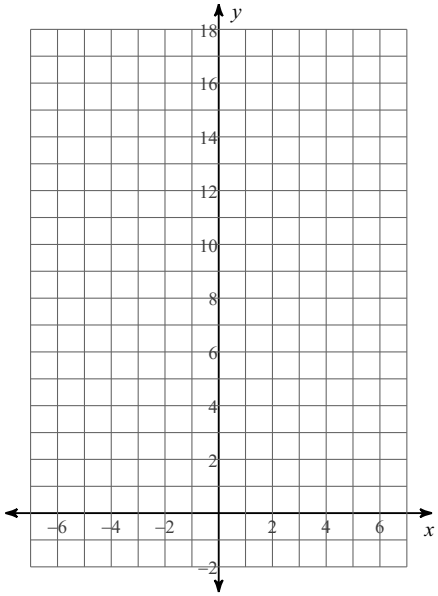


4)

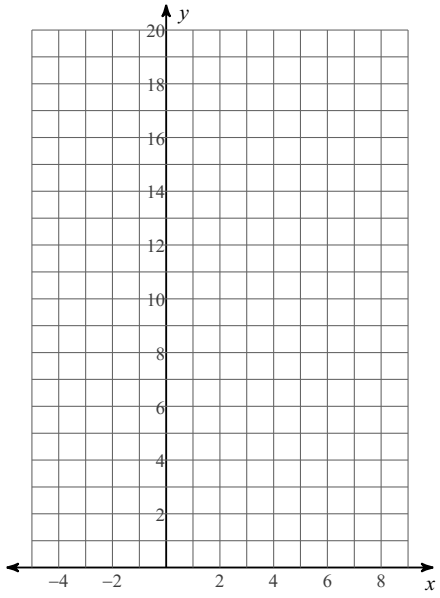


Sketch the graph of each "parent" function. Then graph the function with the indicated shift.

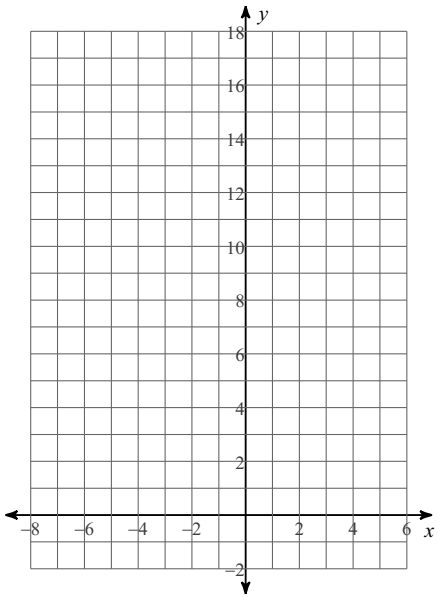
5) $y = 4 \cdot \left(\frac{1}{2}\right)^x - 2$



6) $y = 2 \cdot 2^{x-2}$



7) $y = 5 \cdot 2^{x+1} - 2$



8) $y = 2 \cdot 2^{x+2} - 1$