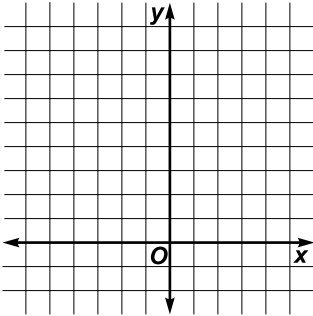


## Practice

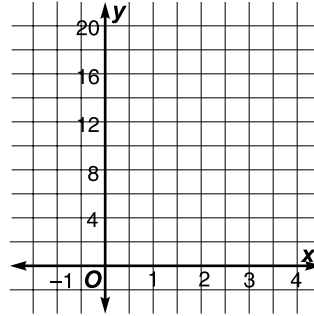
## Exponential Functions

Graph each exponential function or inequality.

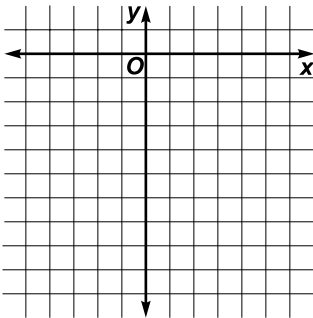
1.  $y = 2^{x-1}$



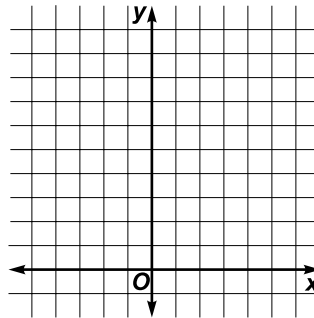
2.  $y = 4^{-x+2}$



3.  $y > -3^x + 1$



4.  $y \geq 0.5^x$



**5. Demographics** An area in North Carolina known as The Triangle is principally composed of the cities of Durham, Raleigh, and Chapel Hill. The Triangle had a population of 700,000 in 1990. The average yearly rate of growth is 5.9%. Find the projected population for 2010.

**6. Finance** Determine the amount of money in a savings account that provides an annual rate of 4% compounded monthly if the initial investment is \$1000 and the money is left in the account for 5 years.

**7. Investments** How much money must be invested by Mr. Kaufman if he wants to have \$20,000 in his account after 15 years? He can earn 5% compounded quarterly.