

11-2

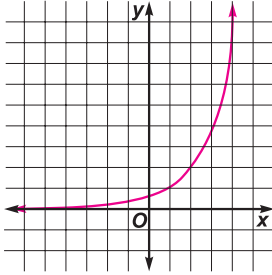
NAME _____ DATE _____ PERIOD _____

Practice

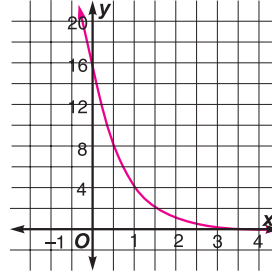
Exponential Functions

Graph each exponential function or inequality.

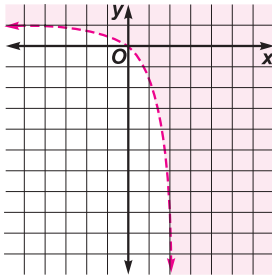
1. $y = 2^{x-1}$



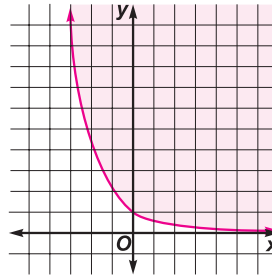
2. $y = 4^{-x+2}$



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. **about 2,203,014**

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. **about \$1221.00**

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. **about \$9491.35**

11-2

Finding

Perhaps you... such as $x =$... original equ... finding solu... process.

Solve each

1. If $a > 0$, v

Yes, si
prop. c

2. If $c > 0$,
a solution

Yes; re
but if (
symme

3. Use 2 as

a. Find e
could
functi
f(x) =

b. Use th
 $x^2 = 2$
 $x^y = y$

Sam

4. In this ex

Use the t
Then gra
symptote
that in th
call for tv

x	y
$\frac{1}{2}$	$\frac{1}{2}$
$\frac{3}{4}$	$\frac{3}{4}$
1	1
2	2
4	2
3	3
2.5	3