NAME _____ DATE _____ PERIOD _____

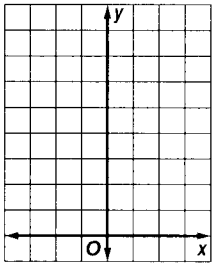
10-5 Skills Practice

Exponential Functions

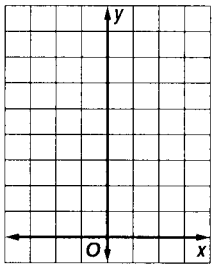
* GRAPHS ON THIS PAGE OR ON GRAPH PAPER. ALL WORK ON LOOSE LEAF.

Graph each function. State the *y*-intercept. Then use the graph to determine the approximate value of the given expression.

1. $y = 2^x$; $2^{2.3}$

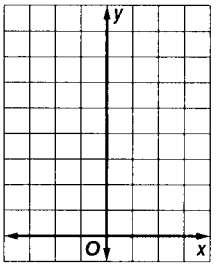


2. $y = \left(\frac{1}{3}\right)^x$; $\left(\frac{1}{3}\right)^{-1.6}$

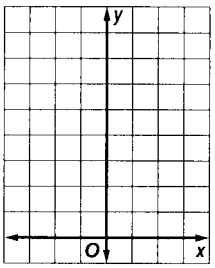


Graph each function. State the *y*-intercept.

3. $y = 3(2^x)$



4. $y = 3^x + 2$



LOOK →

Determine whether the data in each table display exponential behavior. Explain why or why not.

5.

x	−3	−2	−1	0
y	9	12	15	18

6.

x	0	5	10	15
y	20	10	5	2.5

ALL WORK ON LOOSELEAF.

7.

x	4	8	12	16
y	20	40	80	160

8.

x	50	30	10	−10
y	90	70	50	30

Lesson 10-5