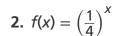
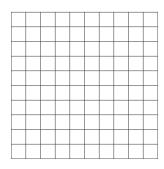
6-2 Additional Practice

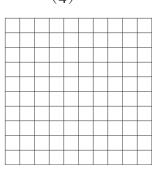
Exponential Functions

Graph each exponential function.

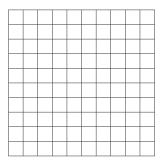
1. $f(x) = 3^x$



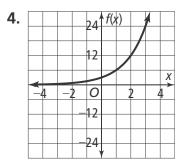




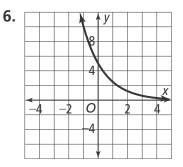
3. $f(x) = 8 \cdot 1.2^{x}$



Write an equation for each exponential function.



5.	x	у
	0	5
	1	10
	2	20
	3	40



7. Explain the key features of the exponential function $y = a \cdot b^x$, including the asymptote, key points on the graph, domain, and range.

8. The function $f(x) = 5,000 \cdot 1.05^{x}$ models an investment of \$5,000 earning 5% annually. Identify and interpret the values of *a* and *b*. What is the balance of the investment after 15 years, assuming no further deposits or withdrawals?