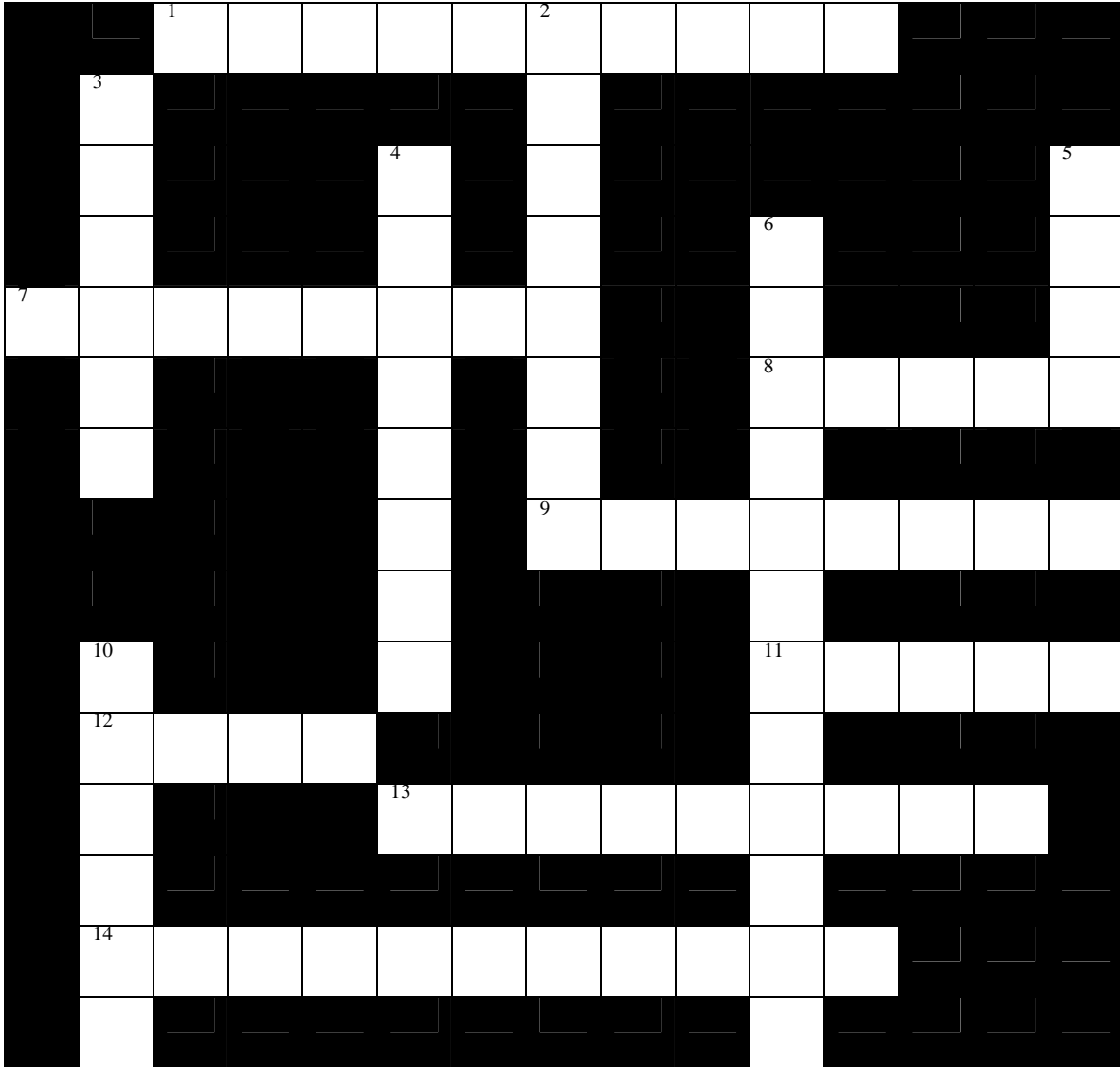# Chapter 6
Exponential Functions

ACROSS

1 For $N = 50 \times 2^{\frac{t}{12}}$, the base of 2 represents the _____ _____

7 These style of exponents are connected to roots

8 The set of y-values for $y = 3^x$ is called the _____

9 The number 4 in 0.5^4 is the _____

11 An exponential function that shows a decreasing quantity is an example of exponential _____

12 The denominator of a rational exponent of the form 1/n indicates an nth _____

13 A line the curve approaches is called an _____

14 A line having the same direction as a curve at the point of contact is called a _____ _____

DOWN

2 Time it takes for a substance to decay to half of its original value

3 The set of x-values for $y = 3^x$ is called the _____

4 A relationship that passes the vertical line test is called a _____

5 Two powers can be multiplied together if they have the same ____

6 Artifacts are dated using a process known as _____ _____

10 An exponential function that shows an increasing quantity is an example of exponential _____

Chapter 6
Exponential Functions
Solutions

		G	R	O	W	T	H	R	A	T	E			
	D						A							
	O				F		L							B
	M				U		F			C				A
R	A	T	I	O	N	A	L			A				S
	I				C		I			R	A	N	G	E
	N				T		F			B				
					I		E	X	P	O	N	E	N	T
					O					N				
	G				N					D	E	C	A	Y
	R	O	O	T						A				
	O				A	S	Y	M	P	T	O	T	E	
	W									I				
	T	A	N	G	E	N	T	L	I	N	E			
	H									G				