

EXPONENTIAL FUNCTION APPLICATIONS

EXPONENTIAL FUNCTIONS APPLICATIONS

Compound Interest			Continuously Compounded Interest		
$A = P(1 + \frac{r}{n})^t$			$A = Pe^{rt}$		
A	P	r	A	P	r
amount	amount	(decimal)	amount	amount	(in %)

1. Your parents start a college fund for you when you were 5 years old. They deposited \$10,000 in an account that earns 5.2% annual interest compounded continuously. You must be 18 to withdraw from the account to pay for college. How much money will be available in your college fund when you are ready to pay for college? Round your answer to the nearest cent.

2. You deposit \$2,000 into an account that pays 4% annual interest compounded annually. How much money will be in the account after 1 year? Round your answer to the nearest cent.

3. If you deposit \$10,000 into a savings account that pays 5.2% annual interest compounded monthly, how long will it take to reach \$20,000 in the account? Round your answer to the nearest year.

EXPONENTIAL FUNCTIONS APPLICATIONS

Exponential Growth Model			Exponential Decay Model		
$A = P(1 + r)^t$			$A = P(1 - r)^t$		
A	P	r	A	P	r
amount	initial amount	rate (decimal)	amount	initial amount	rate (decimal)

4. The sports car costs for \$20,000. The value of the car decreases by 10% annually. What is the value of the car after 5 years?

Example of exponential growth:

Initial amount: \$10,000
 $A = 10000(1 + 0.05)^t$
 $A = 10496.13$
 It will be worth \$10,496.13 in 5 years.

5. 2014, Denver's hometown with approximately 700,000 people. The population is growing at a rate of 1.4% each year. What will the approximate population be in 2025?

Example of exponential decay:

Initial amount: \$10,000
 $A = 10000(1 - 0.1)^t$
 $A = 5080.43$
 In 2025, there will be approximately 50,804 people.

6. Bought for \$50 and depreciates in value by 1% each year. How much is the car after 18 months? Round your answer to the nearest cent.

Example of exponential decay:

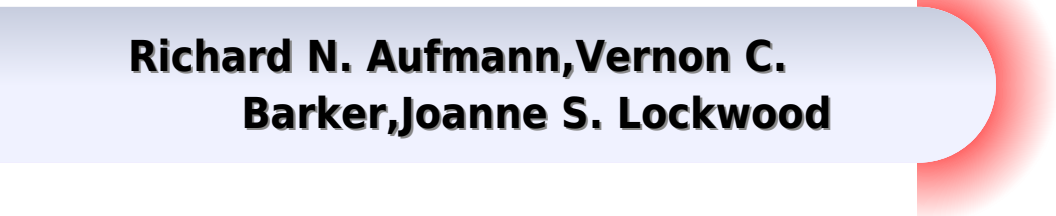
Initial amount: \$50
 $A = 50(1 - 0.01)^t$
 $A = 52.27$
 After 18 months, the car will be worth about \$52.27.

Teach your Algebra 2 students how to solve equations with logs & exponentials.



Algebra 2 Evaluations Function Applications Pi Key

**Richard N. Aufmann, Vernon C.
Barker, Joanne S. Lockwood**



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