

4.3 - Exponential Growth and Decay

Given the growth/decay percentage, determine the multiplier.

1) 5% Growth

2) 12% Decay

3) 200% Growth

4) 0.85% Decay

State whether each of the following equations represents growth or decay.

5) $f(x) = 3^x$

6) $f(x) = 0.25^x$

7) $f(x) = 1.01^x$

8) $f(x) = 0.033^x$

9) $f(x) = 6 \cdot 5^x$

10) $f(x) = 6 \cdot \left(\frac{1}{2}\right)^x$

Identify the necessary information and solve.

- 11) Movie Tickets now average \$9.75 a ticket, but are increasing 15% per year. How much will they cost 5 years from now?

- Growth or Decay?
- What is your multiplier?
- Is \$9.75 your zero term or first term?
- Write the explicit equation.
- Solve.

- 12) A powerful computer is purchased for \$2000, but loses 20% of its value each year. How much will it be worth 4 years from now?

- Growth or decay?
- What is your multiplier?
- Is \$2000 your zero term or first term?
- Write the explicit equation.
- Solve

Answers To Investigation 4 Exponential Decay

L Cohen



Answers To Investigation 4 Exponential Decay:

Reviewing **Answers To Investigation 4 Exponential Decay**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Answers To Investigation 4 Exponential Decay**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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