

4.3 - Exponential Growth and Decay

Period _____

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

13 Exercises Exponential Growth And Decay

Ron Larson



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