Algebra 2 with Support

REVIEW Exponential Functions Test C: Exponential Applications

Spring 2017

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_

**Multiple Choice. Choose the best answer.**

\_\_\_\_\_\_\_ 1. Is the following exponential function **growth or decay**?

A. growth B. decay

\_\_\_\_\_\_\_ 2. Is the following exponential function **growth or decay**?

A. growth B. decay

\_\_\_\_\_\_\_ 3. Is the following exponential function **growth or decay**?

A. growth B. decay

\_\_\_\_\_\_\_ 4. Is the following exponential function **growth or decay**?

A. growth B. decay

\_\_\_\_\_\_\_ 5. What is the horizontal asymptote of the function ?

A. y = 7 B. y = - 2 C. y = 2 D. y = -7

\_\_\_\_\_\_\_ 6. What is the domain of the function ?

A. B. C. D.

\_\_\_\_\_\_\_ 7. What is the range of the function ?

A. B. C. D.

\_\_\_\_\_\_\_ 8. What is the range of the function ?

A. B. C. D.

Describe all transformations.

9. 10.

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11. 12.

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Graph and analyze.

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| [image] 13.   |  |  | | --- | --- | | x | f(x) | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  |   y-intercept \_\_\_\_\_\_\_\_ asymptote \_\_\_\_\_\_\_\_\_  domain \_\_\_\_\_\_\_\_ range \_\_\_\_\_\_\_\_\_    end behavior: as x → +, f(x) → \_\_\_\_\_\_\_\_\_\_, and      as x → -, f(x) → \_\_\_\_\_\_\_\_\_\_  [image] | [image]14.     |  |  | | --- | --- | | x | f(x) | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  |   y-intercept \_\_\_\_\_\_\_\_ asymptote \_\_\_\_\_\_\_\_\_  domain \_\_\_\_\_\_\_\_ range \_\_\_\_\_\_\_\_\_\_    end behavior: as x → +, f(x) → \_\_\_\_\_\_\_\_\_\_, and      as x → -, f(x) → \_\_\_\_\_\_\_\_\_\_  [image] |
| 15.   |  |  | | --- | --- | | x | f(x) | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  |   y-intercept \_\_\_\_\_\_\_\_ asymptote \_\_\_\_\_\_\_\_\_  domain \_\_\_\_\_\_\_\_ range \_\_\_\_\_\_\_\_\_    end behavior: as x → +, f(x) → \_\_\_\_\_\_\_\_\_\_, and    as x → -, f(x) → \_\_\_\_\_\_\_\_\_\_ | 16.   |  |  | | --- | --- | | x | f(x) | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  |   y-intercept \_\_\_\_\_\_\_\_ asymptote \_\_\_\_\_\_\_\_\_  domain \_\_\_\_\_\_\_\_ range \_\_\_\_\_\_\_\_\_    end behavior: as x → +, f(x) → \_\_\_\_\_\_\_\_\_\_, and      as x → -, f(x) → \_\_\_\_\_\_\_\_\_\_ |