

Name Key
Period _____

Section 3.1 p. 166: 8, 10, 18, 52, 56

Sketch and analyze the graph of each function. Describe its domain, range, intercepts, asymptotes, end behavior, and where the function is increasing or decreasing.

8. $g(x) = \left(\frac{1}{3}\right)^x$



D: $(-\infty, \infty)$

R: $(0, \infty)$

y-int: $(0, 1)$

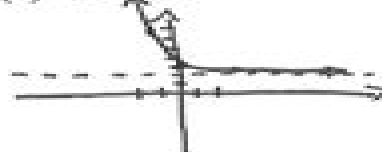
asymptote: $y=0$

$\lim_{x \rightarrow -\infty} g(x) = \infty$

$\lim_{x \rightarrow \infty} g(x) = 0$

Decreasing

10. $d(x) = 5^{-x} + 2$



D: $(-\infty, \infty)$

R: $(2, \infty)$

y-int: $(0, 3)$

Asymptote: $y=2$

$\lim_{x \rightarrow \infty} d(x) = 2$

$\lim_{x \rightarrow -\infty} d(x) = \infty$

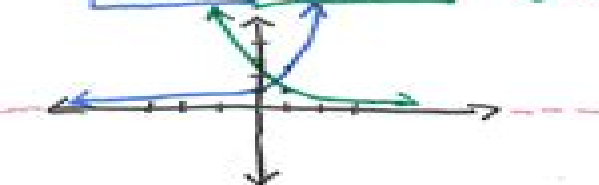
Decreasing

18. Use the graph of $f(x)$ to describe the transformation that results in the graph of $g(x)$. Then sketch the graphs of $f(x)$ and $g(x)$.

$f(x) = e^x$ $g(x) = e^{-x+1}$

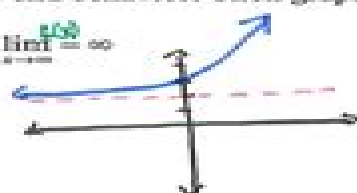
$g(x) = e^{-x+1}$

$g(x)$ is reflected over the x-axis then translated 1 unit to the right



52. Describe the domain, range, continuity, and increasing/decreasing behavior for an exponential function with the given intercept and end behavior. Then graph the function.

$f(0) = 3$; $\lim_{x \rightarrow -\infty} f(x) = 2$; $\lim_{x \rightarrow \infty} f(x) = \infty$



D: $(-\infty, \infty)$

R: $(2, \infty)$

continuous

Increasing

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Jianjun Gao

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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