

Student: _____
Date: _____
Time: _____

Instructor: Fred Khoury
Course: Math 2312-1000 Precalculus (Fall - 2015)
Book: Lial: College Algebra and Trigonometry, 4e

Assignment: Quiz Sec 1.6

1. Find the function value. If the result is irrational, round your answer to the nearest thousandth.

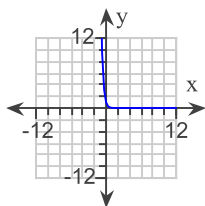
Let $f(x) = (1/3)^x$. Find $f(5/2)$.

- ☐ A. 15.588
☐ B. $\frac{5}{6}$
☐ C. 0.064
☐ D. 1.357

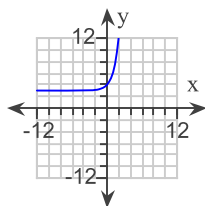
2. Graph the exponential function using transformations where appropriate.

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

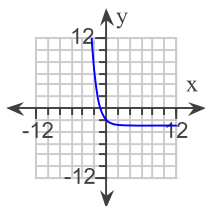
☐ A.



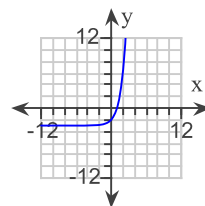
☐ B.



☐ C.



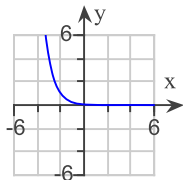
☐ D.



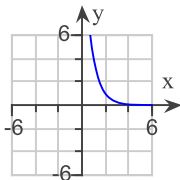
3. Graph the exponential function using transformations where appropriate.

$f(x) = \left(\frac{1}{4}\right)^x + 2$

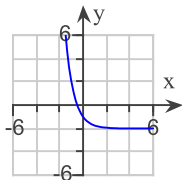
☐ A.



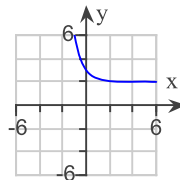
☐ B.



☐ C.



☐ D.



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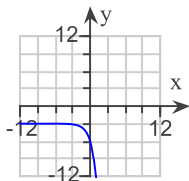
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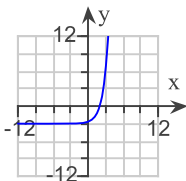
4. Graph the exponential function using transformations where appropriate.

$$f(x) = 3^{x-1} - 3$$

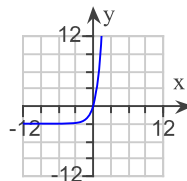
☐ A.



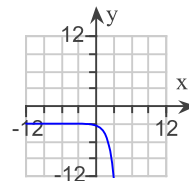
☐ B.



☐ C.



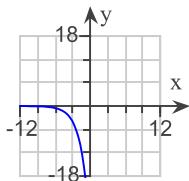
☐ D.



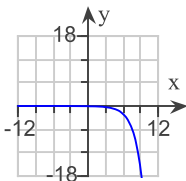
5. Graph the exponential function using transformations where appropriate.

$$f(x) = -2^{x-5}$$

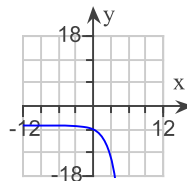
☐ A.



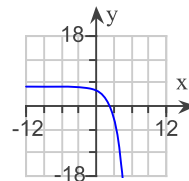
☐ B.



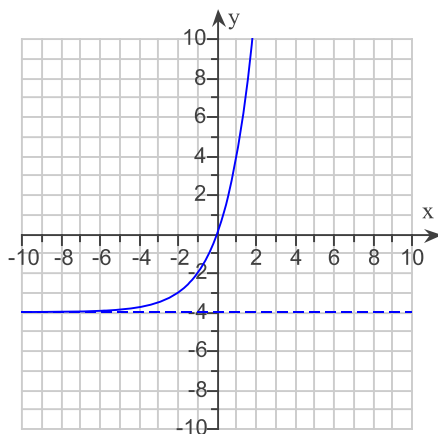
☐ C.



☐ D.



6. Write an equation for the graph given. The graph represents an exponential function f with base 2 or 3, translated and/or reflected.



☐ A. $f(x) = 2^{x-2} - 4$

☐ B. $f(x) = 2^{x+2} - 4$

☐ C. $f(x) = 2^{x+2} + 4$

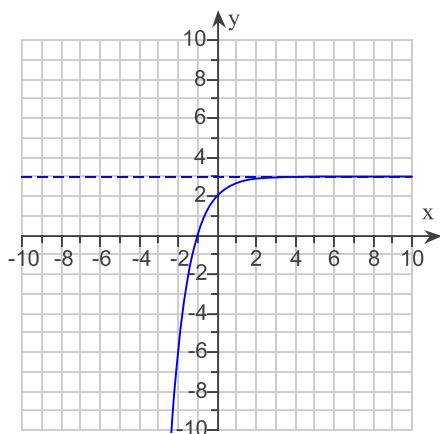
☐ D. $f(x) = 2^{x-2} + 4$

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7. Write an equation for the graph given. The graph represents an exponential function f with base 2 or 3, translated and/or reflected.



- ☐ A. $f(x) = -3^{-x} - 3$
☐ B. $f(x) = -3^{-x} + 3$
☐ C. $f(x) = 3^{-x} - 3$
☐ D. $f(x) = -3^x - 3$