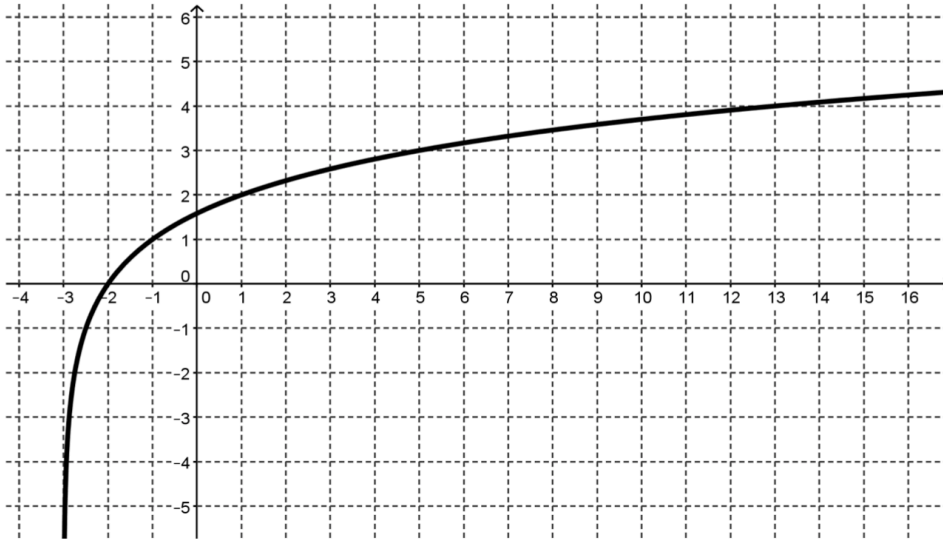


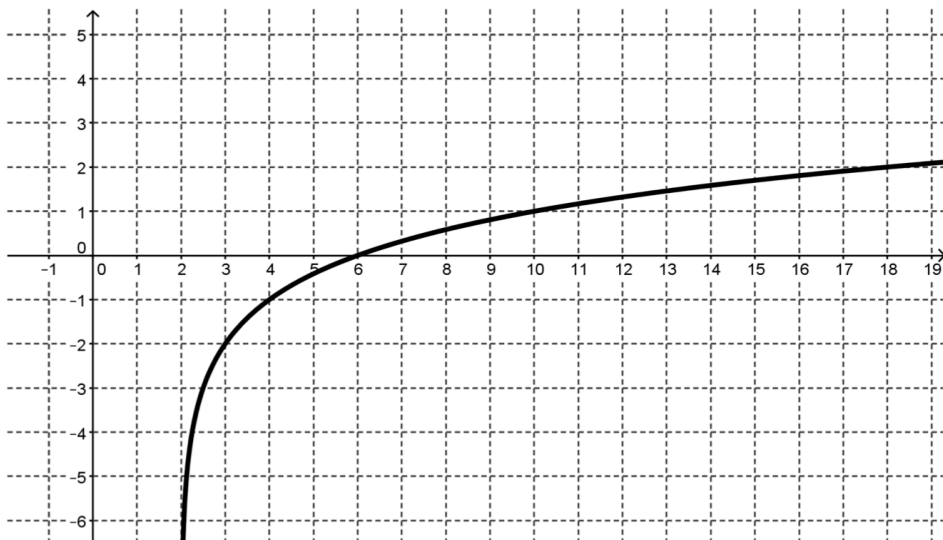
Assignment 2.2

Write an equation for each of the following functions that are transformations of $f(x) = \log_2 x$.

1.



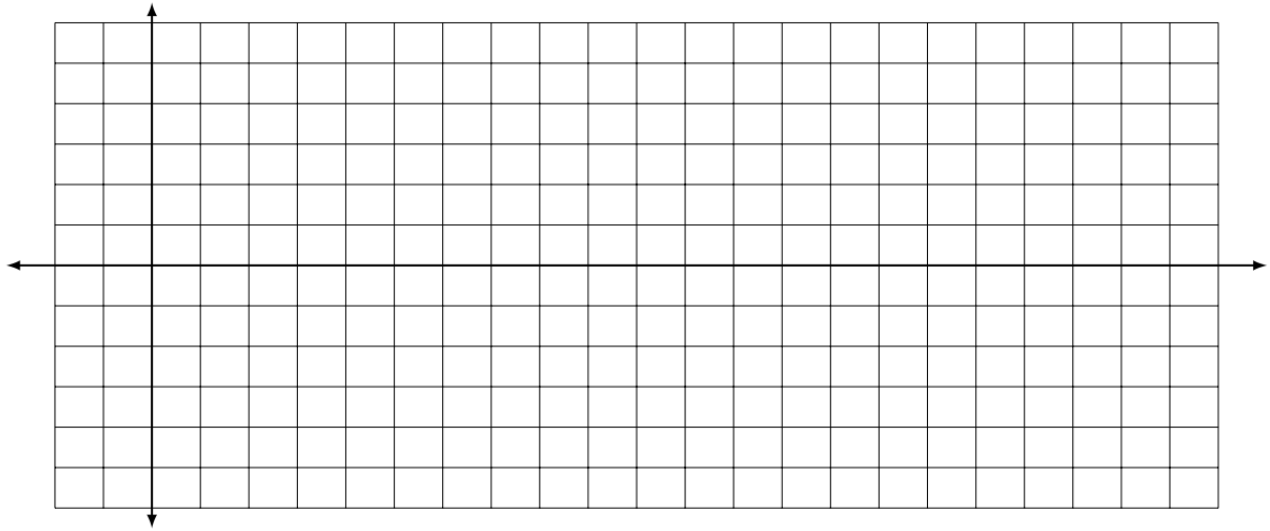
2.



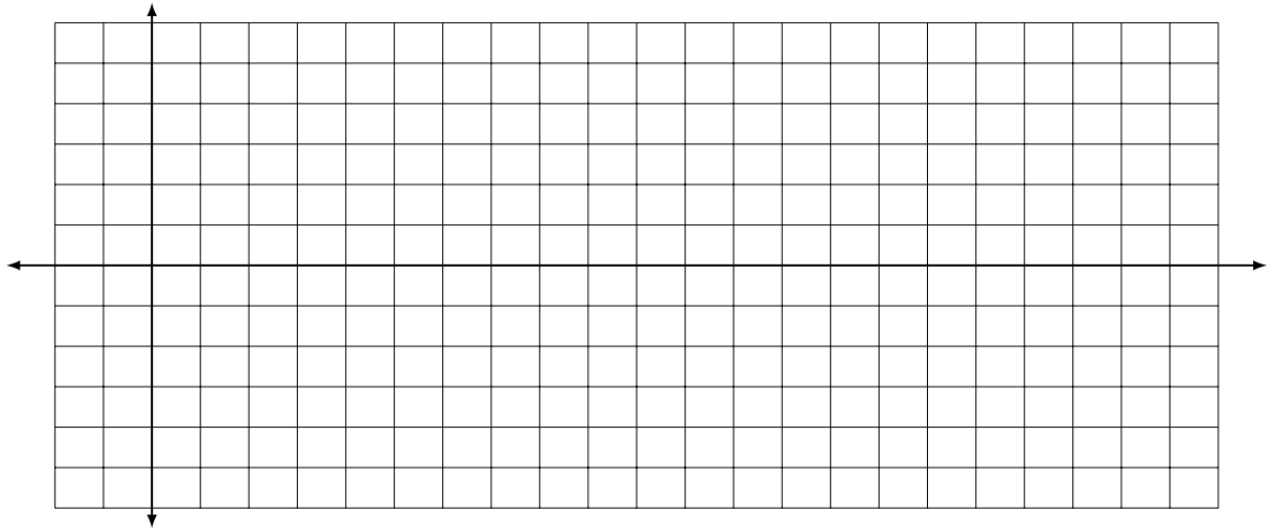
3. What is a good way to choose x values for logarithmic functions?

Graph each function using transformations.

4. $f(x) = 2 + \log_2(x - 1)$



5. $g(x) = -1 + \log_2(x + 2)$



Refresh Your Memory

Simplify each expression, all answers must use positive exponents.

6. $(2^3)^{-4}$

7. $(x^3)^2$

8. $(2^3x)^4$

9. $x^2 \cdot (x^5)^2$

10. $(2a^3b^2)^2$