FUNCTION REVIEW WORKSHEET 3 – LOGARITHMIC AND EXPONENTIAL FUNCTIONS

Graph the following functions on a sheet of graph paper. Each function should have its own graph. Find and label the key point, range, domain, y intercept, and x intercept.

1. $f(x) = 2^{x+6} - 4$

2. $f(x) = -\left(\frac{1}{2}\right)^{x-1} + 3$

3. $f(x) = 5^{-x} - 3$

4. $f(x) = \left(\frac{5}{4}\right)^{x-8} + 2$

5. $f(x) = 3(2)^{x+1} - 5$

6. $f(x) = \left(\frac{3}{2}\right)^{4-x} - 2$

7. $f(x) = -\left(\frac{1}{3}\right)^{2-x} - 4$

8. $f(x) = \log_5(x-3) + 2$

9. $f(x) = \log_4(x+4) - 3$

10. $f(x) = -\log_2(x-3)$

11. $f(x) = \log_3(-x)$

12. $f(x) = \log_3(4-x) + 2$

13. $f(x) = \log_3(x+6) + 4$

14. $f(x) = |\log_2 x|$

15. $f(x) = \log_2 |x|$