**Algebra 2 CP Worksheet Section 8.4 Part 2 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**SHOW ALL WORK AND ANSWERS ON SEPARATE PAPER.**

**Simplify and/or find the value of x.**

1. $log\_{15}15$
2. $log\_{5}x=3$
3. $log\_{x}\frac{1}{16}=-2$
4. $log\_{44}44$
5. $log\_{50}x=1$
6. $\frac{1}{2}=log\_{121}x$
7. $log\_{10}100,000$
8. $-4=log\_{3}x$
9. $log\_{64}x=\frac{1}{3}$
10. $log\_{9}1$
11. $log\_{8}x=-2$
12. $-4=log\_{x}\frac{1}{16}$

**Make a table of values and graph each function below.**

1. $y=log\_{3}x$
2. $f\left(x\right)=log\_{4}\left(x-1\right)$
3. $g\left(x\right)=log\_{5}x-2$

