Name:

Date: PD:

**CW: Intro to Logarithmic Functions.**

*Write the given equation in logarithmic form.*

1.  2)  3) 

*Write the given equation in exponential form.*

4)  5)  6) 

*Evaluate the logarithmic expression.*

7)  8)  9) 

*Solve the given equation.*

10)  11)  12) 

Simplify:

13) log41 14) log66 15) log337 16) 5log510

17) ln1 18) lne 19) lne17 20) eln(-3)

Graph each logarithmic equation. Find the domain, range, vertical asymptote, and x –intercept.

 

21) f(x) = log3x – 2

Domain:

Range:

Vertical Asymptote:

x-intercept:

22) f(x) = log(x + 3)

 

Domain:

Range:

Vertical Asymptote:

x-intercept:

23) f(x) = -log2x – 1

 

Domain:

Range:

Vertical Asymptote:

x-intercept: