Always do the terminology fill-in-the-blank questions at the beginning of each homework section. This section, they are the first 8 questions. This is the last time I'm telling you. Henceforth, this is just something you do. Solve the equation for the '?.'
9. $2^{?}=64$
10. $3^{?}=\frac{1}{81}$

Evaluate the following:
11. $\log (10)$
12. $\ln (0)$
13. $\ln (e)$

Sketch the graph of each of the following:
14. $y=\log _{3}(x)$
15. $f(x)=\log _{5}(x)$
16. $y=\log _{1 / 2}(x)$
17. $h(x)=\log _{1 / 5}(x)$
18. $f(x)=\ln (x-1)$
19. $f(x)=\log (x+2)-3$

Use a graph or a table to find each of the following limits:
20. $\lim _{x \rightarrow \infty}\left(\log _{3}(x)\right)$
21. $\lim _{x \rightarrow \infty}(\log (x))$

