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.
$$y = \log_3(x)$$

17. $h(x) = \log_{1/5}(x)$
18. $f(x) = \ln(x-1)$
16. $y = \log_{1/2}(x)$
19. $f(x) = \log(x+2) - 3$

Use a graph or a table to find each of the following limits:

$$20. \lim_{x\to\infty} (\log_3(x))$$

$$21. \lim_{x \to \infty} (\log(x))$$