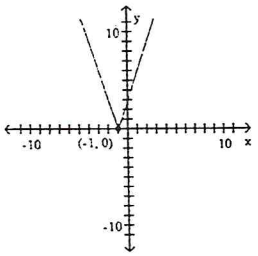
Determine the intervals on which the function is increasing, decreasing, and constant.

13)



Find ALL of the asymptote(s) of the given function.

14) $g(x) = \dfrac{x-5}{(x-9)(x+5)}$

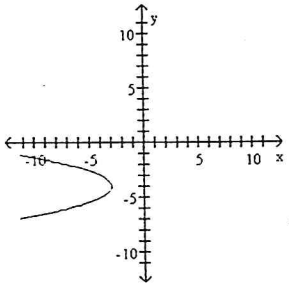
15) $h(x) = \dfrac{(x-3)(x+3)}{x^2-1}$

Solve the equation algebraically. Confirm graphically.

16) $(x-12)^2 = 64$

Determine whether the graph is the graph of a function. Explain why.

17)



Solve the problem.

18) Determine graphically the local maximum and local minimum of $f(x) = -5x^{2/3} - 1$.

Graph the piecewise-defined function.

19) $g(x) = \begin{cases} x^2 & \text{if } x \le 0 \\ e^x & \text{if } x > 0 \end{cases}$