

Identify the parent function and describe the translations. Find the domain, range, and equations of the asymptotes. Then, sketch a graph of the function.

1.  $f(x) = \frac{1}{x+3} - 4$

2.  $g(x) = \frac{1}{(x+1)^2} - 3$

3.  $h(x) = \frac{1}{(x-1)^2} + 4$

4.  $j(x) = \frac{1}{x-5} + 2$

5.  $k(x) = \frac{1}{(x+4)^2} - 3$

6.  $m(x) = \frac{1}{(x-3)^2} - 2$

Write the equation of the function graphed.

