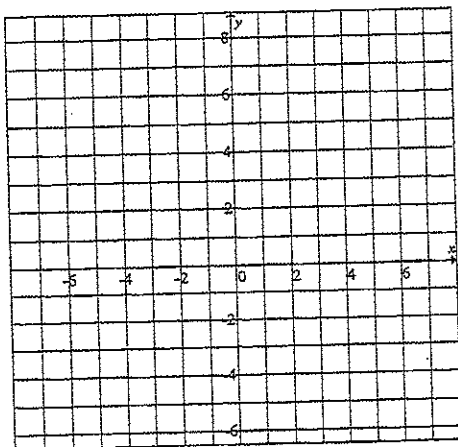


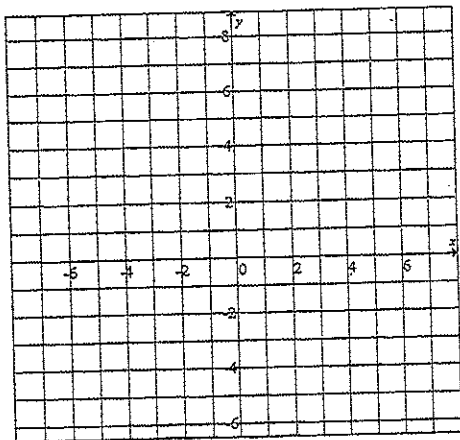
Pre-Calculus 12 Graphing Rational Functions

Sketch the following graphs and determine the intercepts and asymptotes.

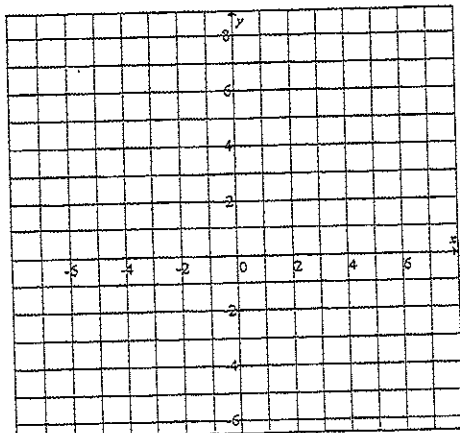
1.) Sketch: $g(x) = \frac{x^2-4}{x^2-9}$



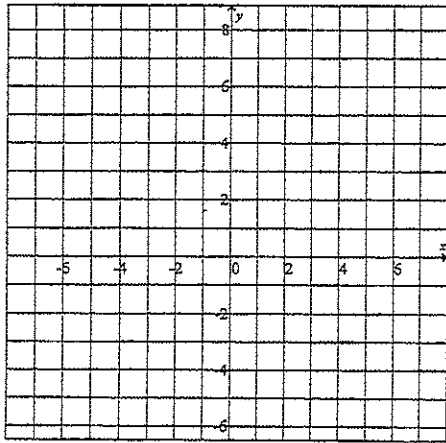
2.) Sketch: $f(x) = \frac{3x}{x^2-9}$



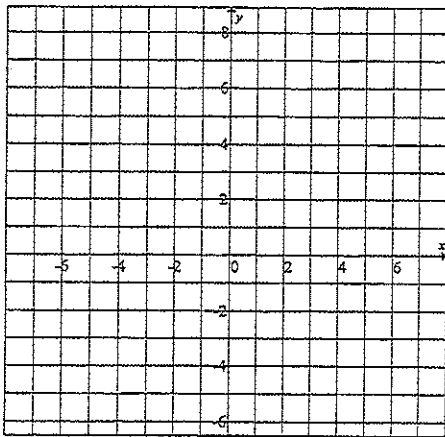
3.) Sketch: $f(x) = \frac{2}{x^2+1}$



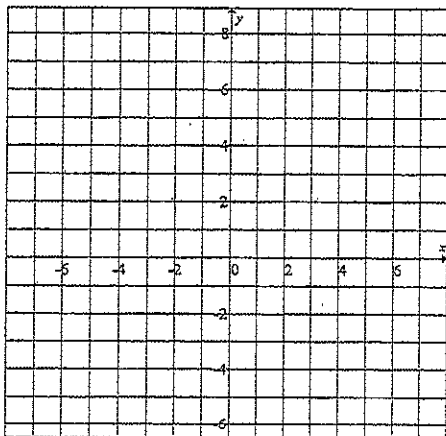
4.) Sketch: $f(x) = \frac{-1}{x^2+4}$



5.) Sketch: $f(x) = -\frac{3}{x^2}$

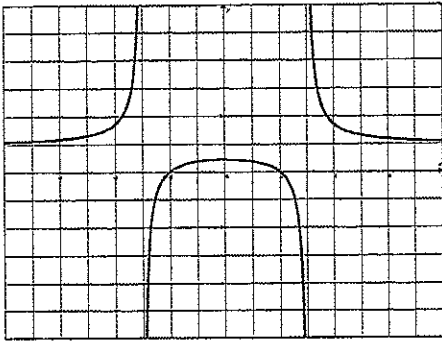


6.) Sketch: $f(x) = \frac{1}{x+1} - 2$

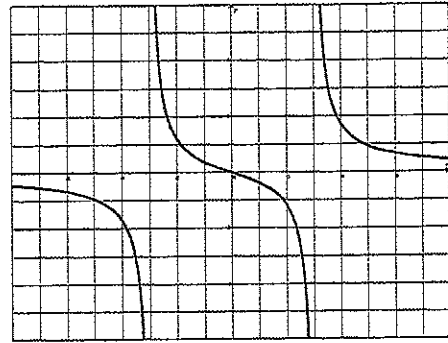


Answers

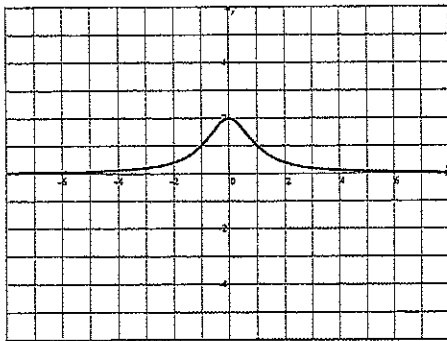
1.



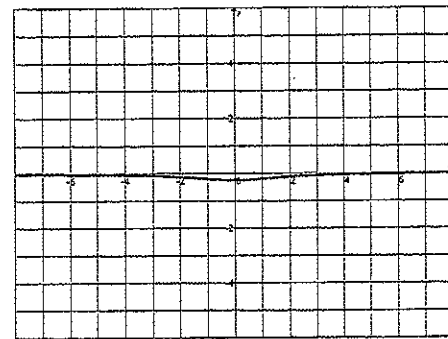
2.



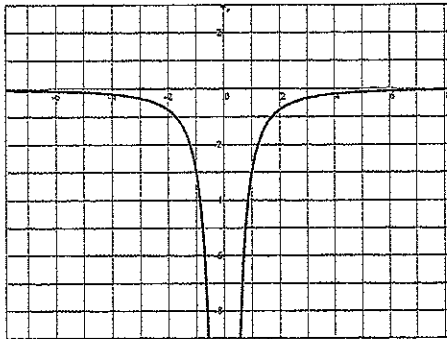
3.



4.



5.



6.

