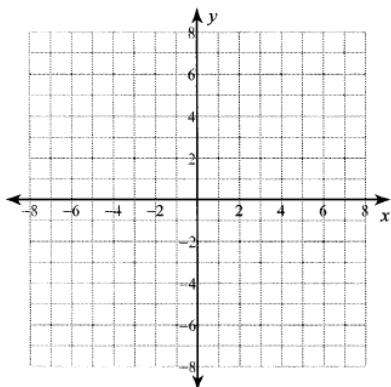


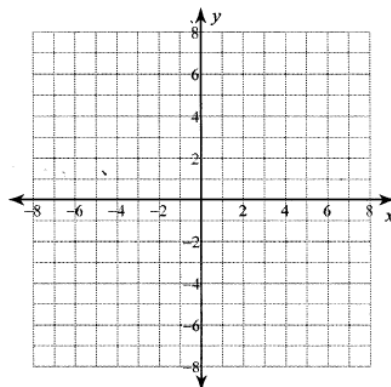
Graphing Rational Functions

Identify the holes, vertical asymptotes, horizontal asymptote, domain, and range of each. Then sketch the graph.

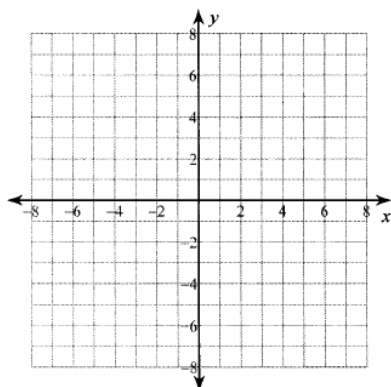
1) $f(x) = -\frac{2}{x} + 3$



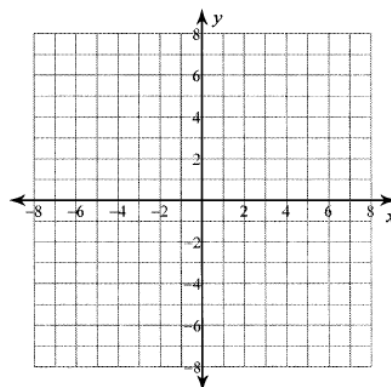
2) $f(x) = \frac{4}{x-1} + 2$



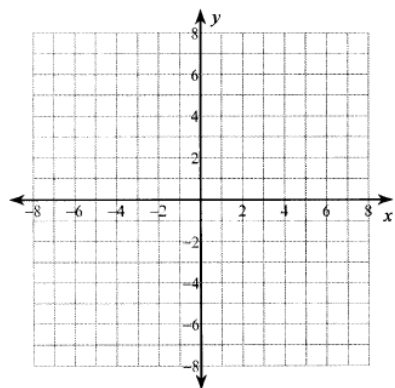
3) $f(x) = \frac{x-1}{-2x-8}$



4) $f(x) = \frac{-x^2 - 4x}{x^2 + 7x + 12}$



5) $f(x) = \frac{x^3 - 3x^2 - 4x}{-4x^2 + 16}$



6) $f(x) = \frac{1}{3x+9}$

