

Graphing Polynomials/Rational Expressions Review (#35)

Solve.

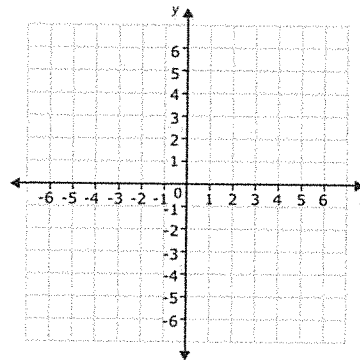
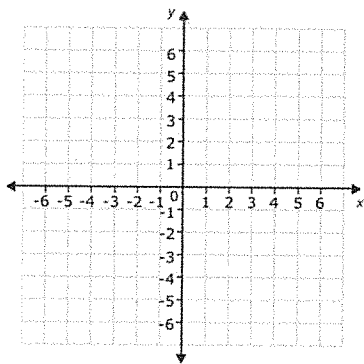
1. $5x^{-2} + 6x^{-1} + 2 = 1$

2. $\frac{1}{x+2} - \frac{3}{x^2-x-6} = \frac{2}{x+1}$

Graph.

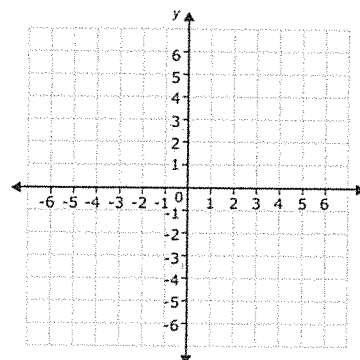
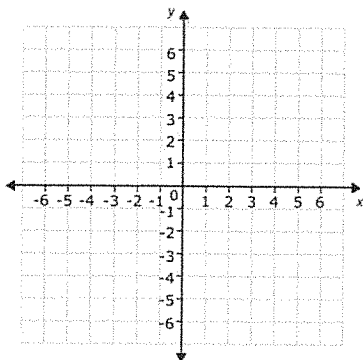
3. $f(x) = -2x^2(x+3)(2x-5)^2$

4. $g(x) = x^3 + 3x^2 - x - 3$

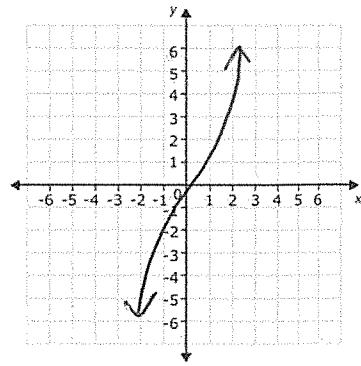
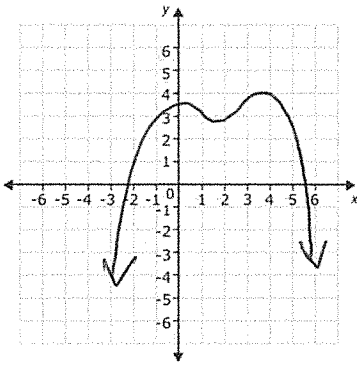
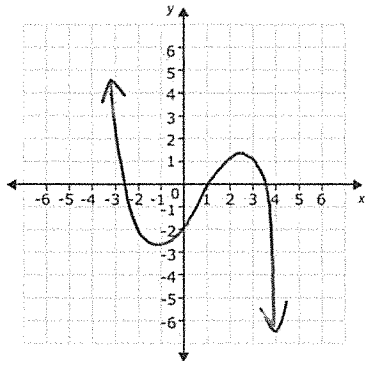


5. $h(x) = \frac{2}{3x-8}$

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



7. Which graph below could not possibly be the graph of a cubic function? Explain your answer.



8. Describe in your own words what happens to a function at a vertical asymptote.