Offline HW 4

This assignment is due on <mark>Monday, October 9</mark>. No extensions will be given. The overall look of your paper will count toward your grade. Please graph the function on the grid below. Submissions on other paper will not be graded. This must be **YOUR work**; Papers that are suspiciously identical will receive 0 credit.

Graph $f(x) = \frac{x^3 - 1}{x^2 - 9}$. Follow the procedure outlined in the notes.

1) Domain

2) y–intercept
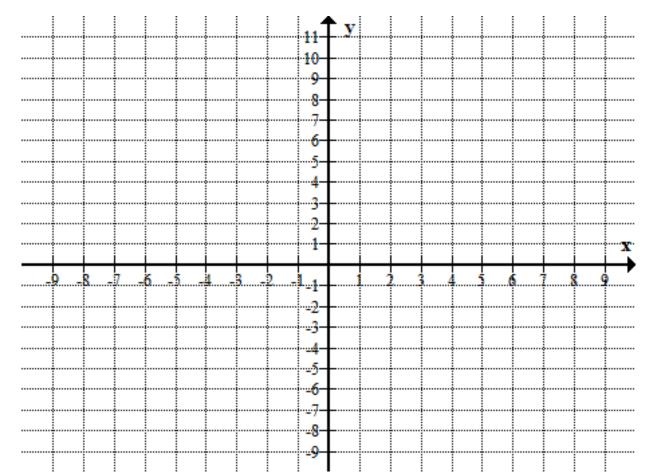
   x–intercepts

3) Vertical asymptotes

4) Horizontal/oblique asymptote

5) Intersection with asymptote

6) Symmetries

7) Sign chart

8)Graph