Answer all questions to the best of your ability. Full credit will only be given if all work is shown and organized and it is clear what your answer is. The HW is out of 10 points.

- Section 5.3, page 365, problems: 9, 12, 32, 45, 46
- Section 4.5, page 312, problems: 4, 5, 13, 14, 18

1. Use the steps 1−8 on pages 355-356 to analyze the graph of $H(x) = \frac{1}{x} - \frac{1}{x^3}$. Hint: Combine the function into a single fraction.

2. What is the domain of the function $f(x) = \sqrt{x^2 - 16}$?