Part 1:

1. Write an equation of a rational function, f(x) with Removable Discontinuity at 7, Non-Removable Discontinuity at -2, and Horizontal Asymptote of y = 3/4.

2. State the following and graph $g(x) = \frac{2x^2 - 10x + 8}{4x^2 - 4x}$

- Domain:
- Range:
- x & y intercepts:
- Removable Discontinuity:
- Non-Removable Discontinuity:
- Horizontal Asymptote:
- Limits at discontinuities:
- End Behavior using limits:

Part 2:

Using the graph of f(x) below, find the following limits.



Part 3: State the following and make a graph of $g(x) = \frac{\sqrt[3]{x}}{x^2 - x}$

- Range:
- x & y intercepts:
- Max and Min:
- Increasing:
- Decreasing:
- Limits at discontinuities:
- End Behavior using limits:



Write an equation for the graphed rational function.

