

*No calculators are allowed on this quiz.* Please read each question carefully, follow directions and clearly mark your solutions. **Show your work for full credit.**

Let  $f(x) = \frac{x(x-1)}{x^2-1}$ . Follow the procedure outlined below.

1. Domain

2. y-intercept

3. x-intercept

4. Vertical asymptote(s)

5. Horizontal asymptote(s)

6. Symmetries

7. Sign chart