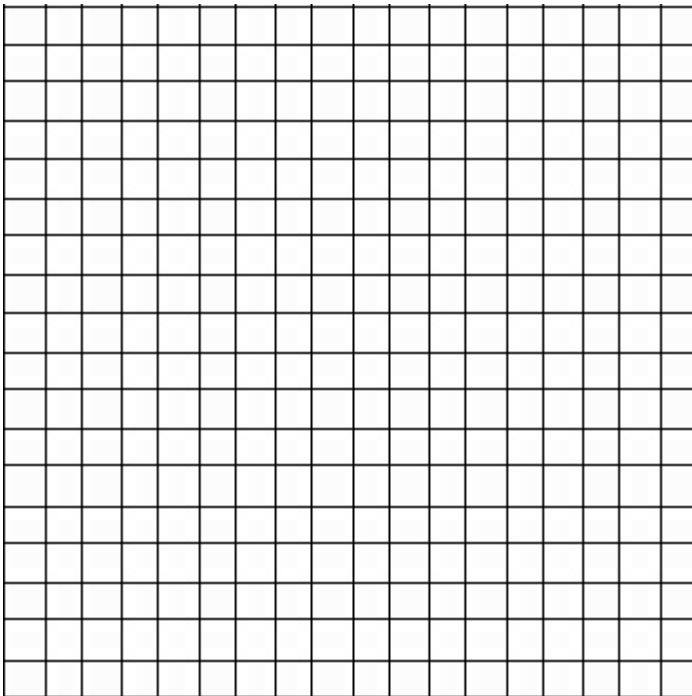


I. Analyze the Graph of a Rational Function

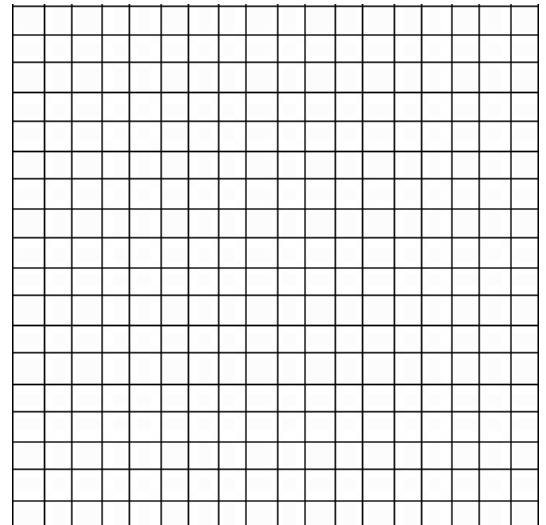
1. Factor numerator & denominator.
2. Write R in lowest terms. Find domain.
3. Locate intercepts.
4. Locate vertical asymptotes.
5. Locate horizontal or oblique asymptotes.
Determine if R intersects this asymptote.
6. Use a graphing calculator to help graph R by hand.

$$R(X) = \frac{x-1}{x^2-4}$$

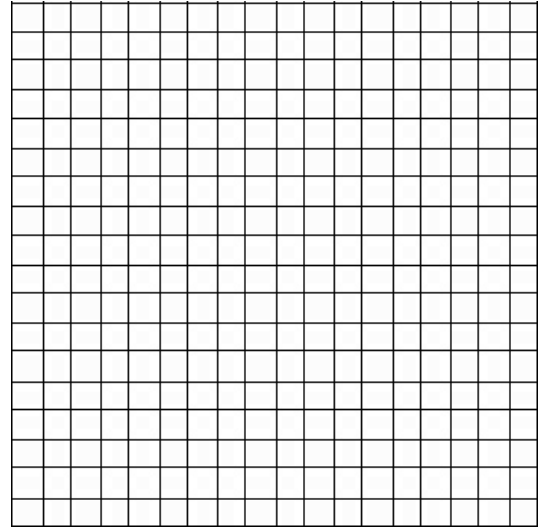


II. Examples

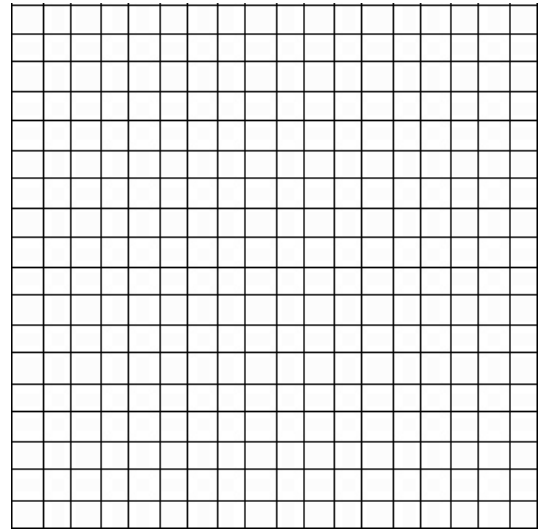
1. $R(x) = \frac{2x^2 - 5x + 2}{x^2 - 4}$



$$2. R(x) = \frac{2x^2 - 5x + 2}{x^2 - 4}$$



$$3. R(x) = \frac{x^4 + 1}{x^2}$$



$$4. R(x) = \frac{3x^2 - 3x}{x^2 + x - 12}$$

