

Name _____

[06-02-27-T9]

$$f(x) = \frac{k}{x-h}$$

■ A. Discuss the function f defined by $f(x) = \frac{2}{x}$. Give complete answers using correct notation.

■ 1. Domain

■ 2. Range

■ 3. Zeros

■ 4. Asymptotes:

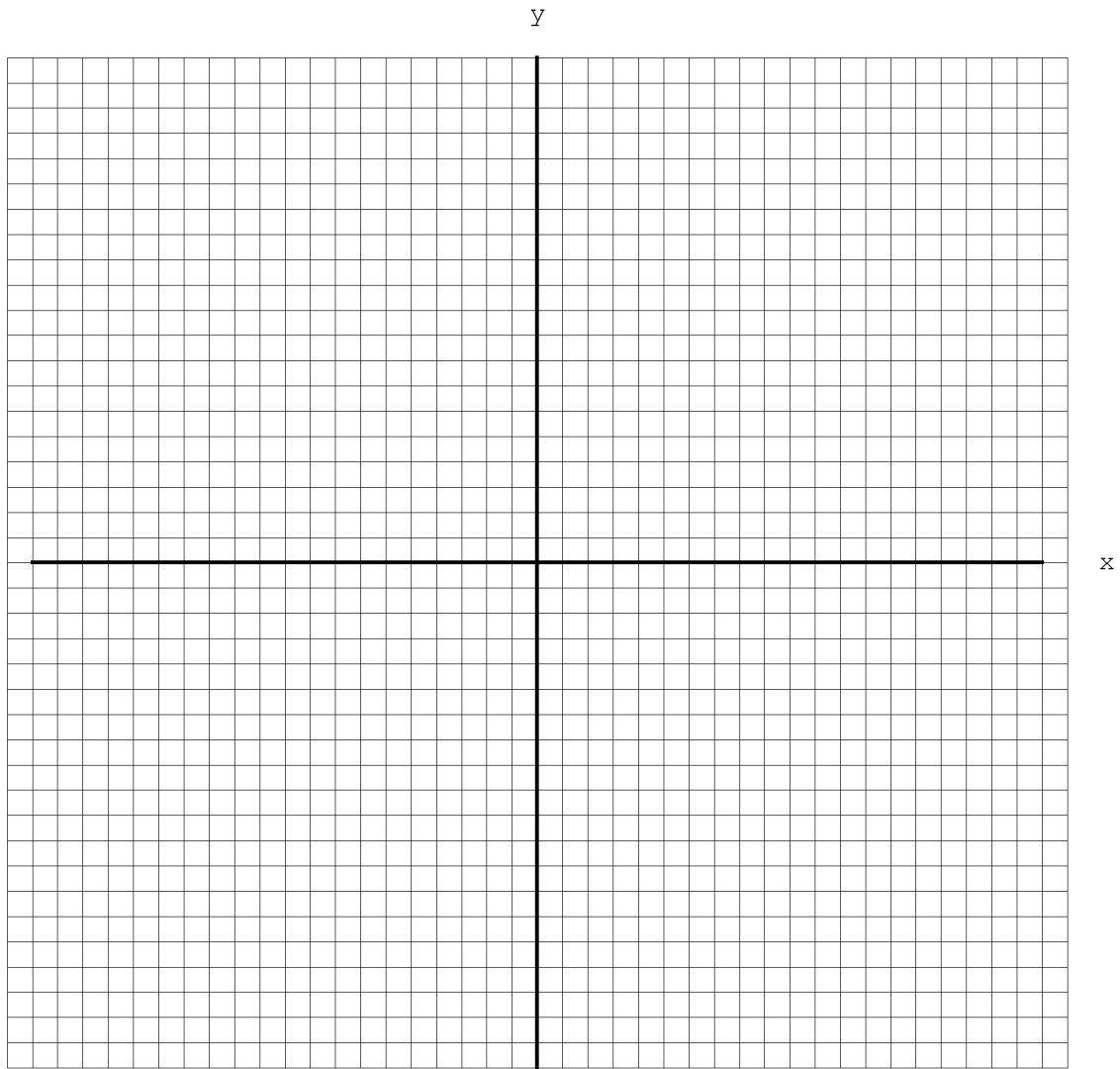
■ 5. Extreme values (maximum, minimum).

■ 6. Monotonicity (increasing, decreasing)

■ 7. Symmetry (state the line of symmetry, if it exists)

■ 8. Rate of change (constant or variable? Support your answer)

■ Graph the function



■ B. Discuss the function f defined by $f(x) = \frac{2}{x-2}$. Give complete answers using correct notation.

■ 1. Domain

■ 2. Range

■ 3. Zeros

■ 4. Asymptotes:

■ 5. Extreme values (maximum, minimum)

■ 6. Monotonicity (increasing, decreasing)

■ 7. Symmetry (state the line of symmetry, if it exists)

■ 8. Rate of change (constant or variable? Support your answer)

■ Graph the function

