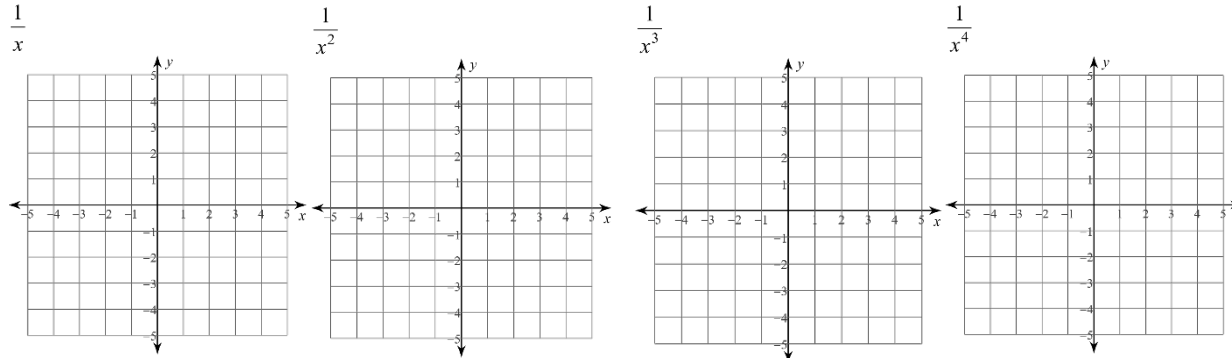


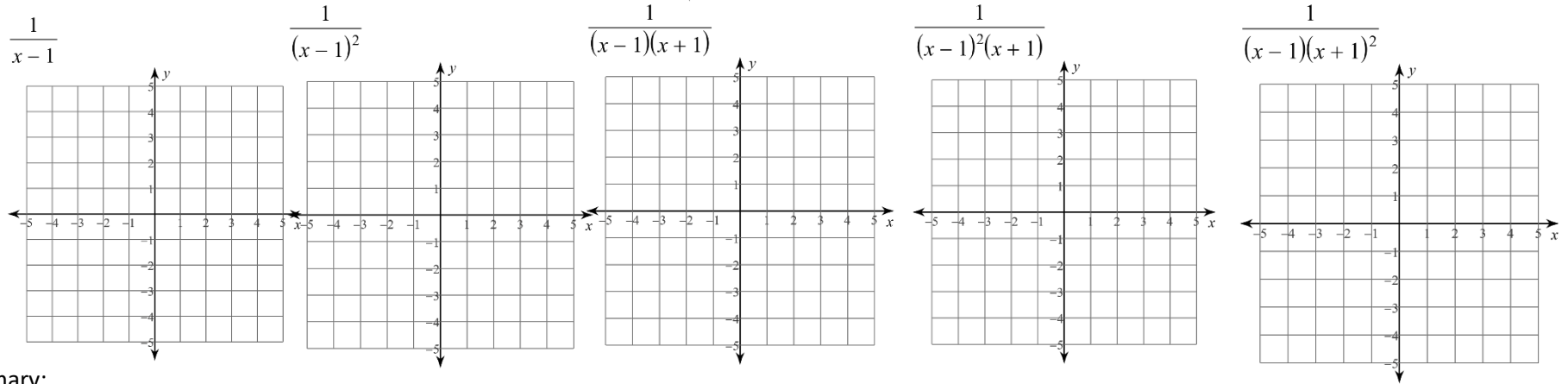
# Graphing Rational Functions Exploration (with calculator)

Name \_\_\_\_\_ Period \_\_\_\_\_

A

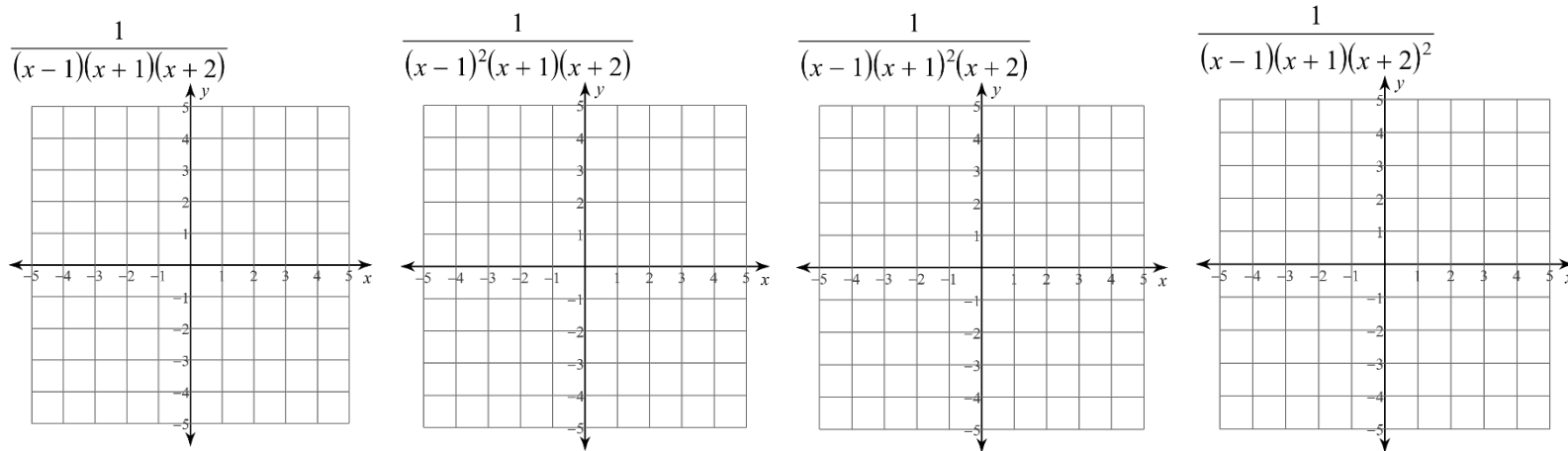


B



Summary:

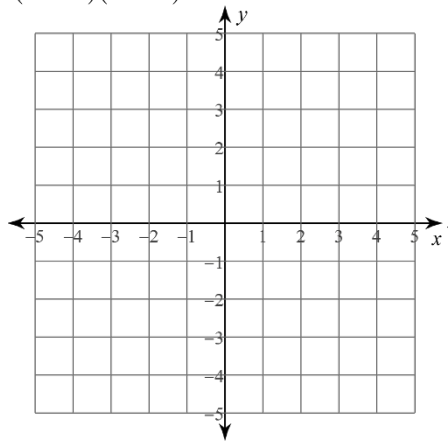
C



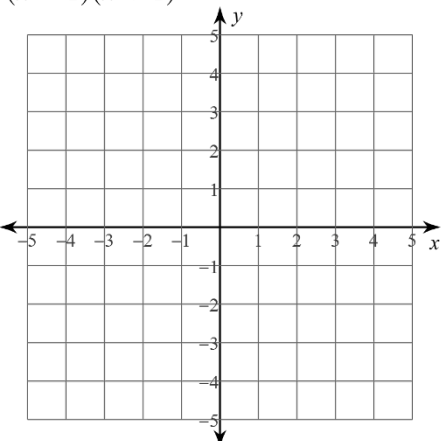
Summary:

D

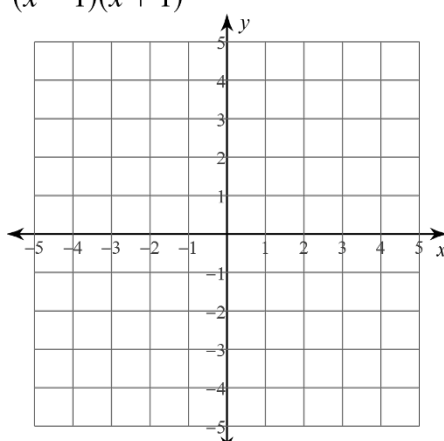
$$\frac{1}{(x-1)(x+1)}$$



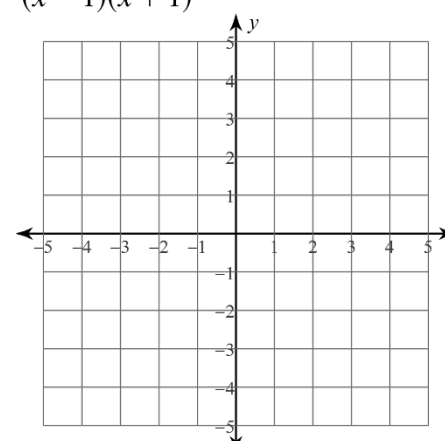
$$\frac{x-1}{(x-1)(x+1)}$$



$$\frac{(x-2)^2}{(x-1)(x+1)}$$

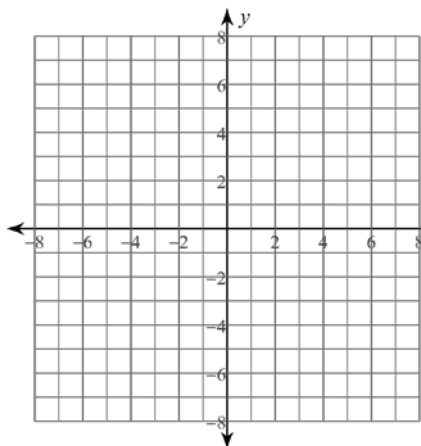


$$\frac{(x-2)(x+2)}{(x-1)(x+1)}$$

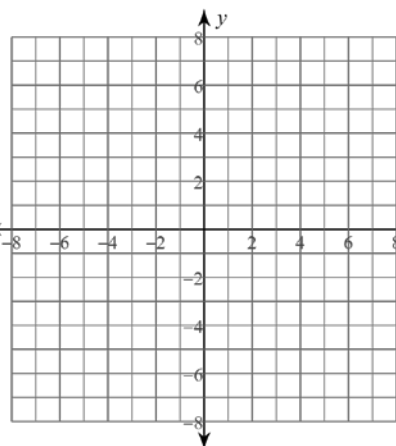


Summary:

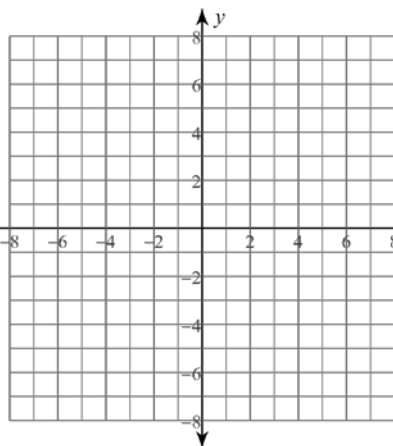
E



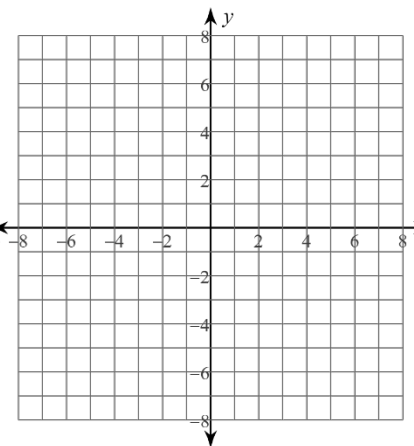
$$\frac{(x+1)(x+4)}{(x-5)(x+1)(x+2)}$$



$$\frac{(x+1)(x+6)}{x+2}$$



$$\frac{-x+2}{(x+1)(x+5)}$$



$$x^3 - 6x^2 - x + 30; \text{ given factor: } x - 5$$
  
 (long division)

Summary: