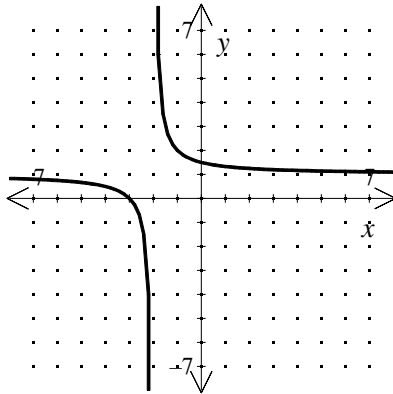


NAME: _____

1. Which function matches the graph?



- [A] $f(x) = \frac{x+3}{x+2}$ [B] $f(x) = \frac{x+2}{x+3}$
 [C] $f(x) = \frac{x+1}{x+4}$ [D] $f(x) = \frac{x+4}{x+1}$

[1] _____

2. Identify the type of symmetry (if any) of the graph of the function.

$$g(x) = \frac{x^3}{3x^4 + 1}$$

- [A] y-axis symmetry
 [B] origin symmetry
 [C] no symmetry [D] x-axis symmetry

[2] _____

3. Identify the type of symmetry (if any) of the graph of the function.

$$g(x) = \frac{2x^4}{2x^7 + 1}$$

- [A] origin symmetry
 [B] x-axis symmetry
 [C] y-axis symmetry
 [D] no symmetry

[3] _____

4. Identify the type of symmetry (if any) of the graph of the function.

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

- [A] origin symmetry
 [B] x-axis symmetry
 [C] y-axis symmetry
 [D] no symmetry

[4] _____

5. Compare the quantity in Column A with the quantity in Column B.

Rewrite this function in $y = \frac{k}{(x-b)} + c$ form:

$$y = \frac{3x-2}{x+4}$$

Column A Column B

b c

- [A] The quantity in Column A is greater.
 [B] The quantity in Column B is greater.
 [C] The two quantities are equal.
 [D] The relationship cannot be determined on the basis of the information supplied.

[5] _____

[1] A

[2] B

[3] D

[4] C

[5] B