

8-6C Graphing Reciprocal Functions

- determine properties of reciprocal functions
- graph transformations of reciprocal functions
- A.CED.2, F.BF.3

reciprocal function:

KeyConcept Parent Function of Reciprocal Functions

Parent function:

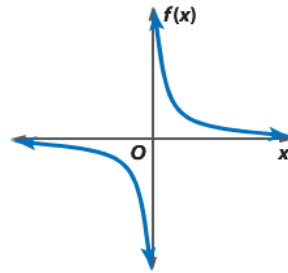
Type of graph:

Domain and range:

Asymptotes:

Intercepts:

Not defined:



KeyConcept Transformations of Reciprocal Functions

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

h – Horizontal Translation

k – Vertical Translation

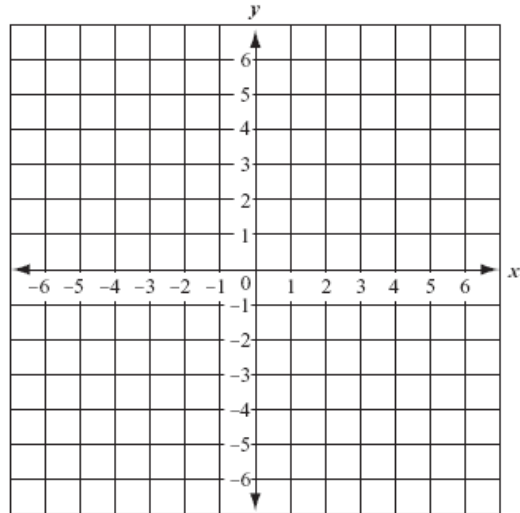
The *vertical* asymptote is at

The *horizontal* asymptote is at

a – Orientation and Shape

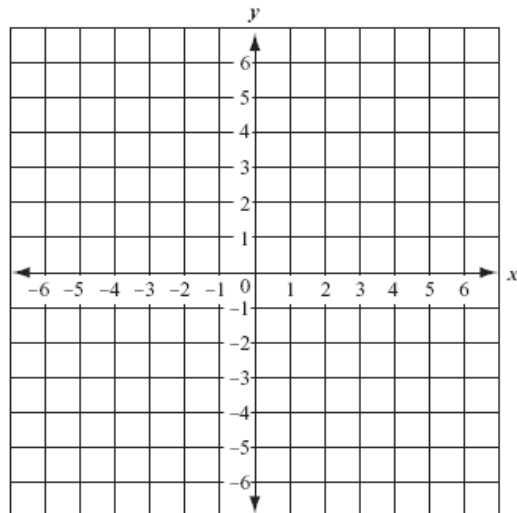
Graph the following functions. Then state the domain and range.

1. $f(x) = -\frac{1}{x+1} + 3$



Graph the following functions. Then state the domain and range.

2. $f(x) = \frac{-4}{x-2} - 1$



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12-22 evens

Attachments

9-2HW.notebook