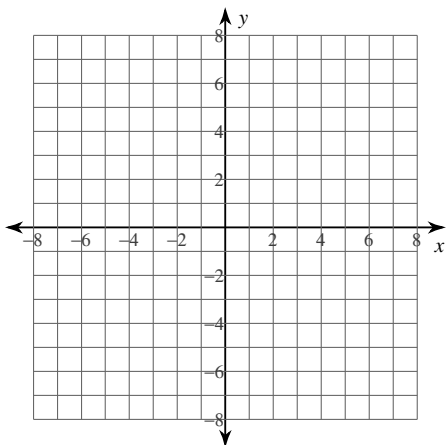


Assignment

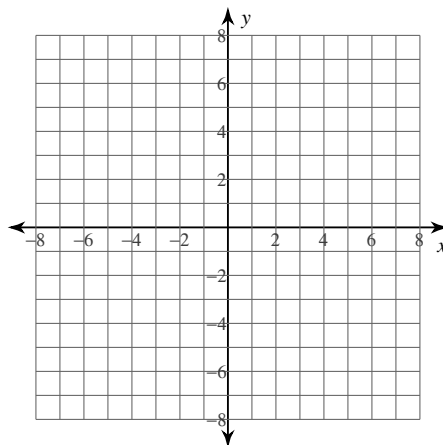
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Identify the vertical asymptotes and horizontal asymptote of each. Then sketch the graph.

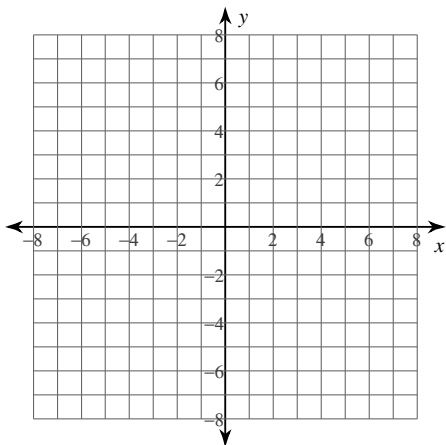
1) $f(x) = -\frac{4}{x}$



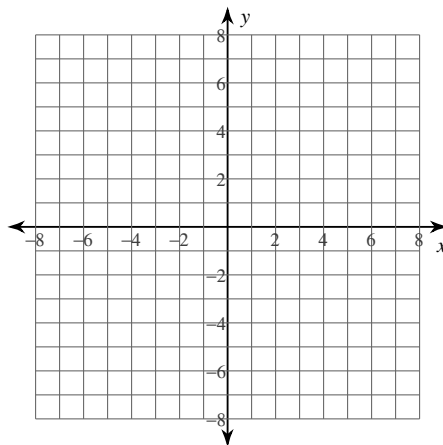
2) $f(x) = \frac{3}{x+2}$



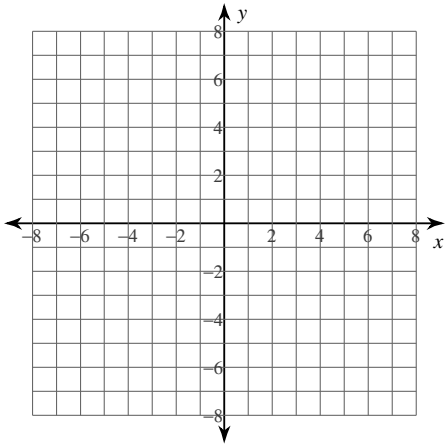
3) $f(x) = -\frac{4}{x-1}$



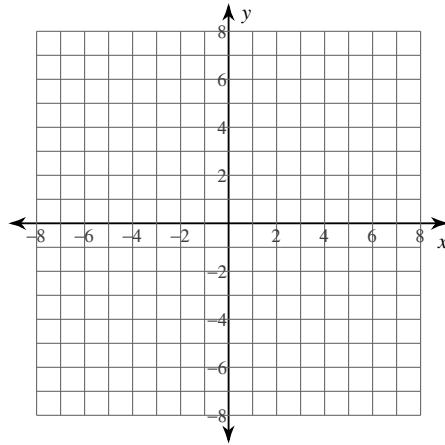
4) $f(x) = -\frac{3}{x+1}$



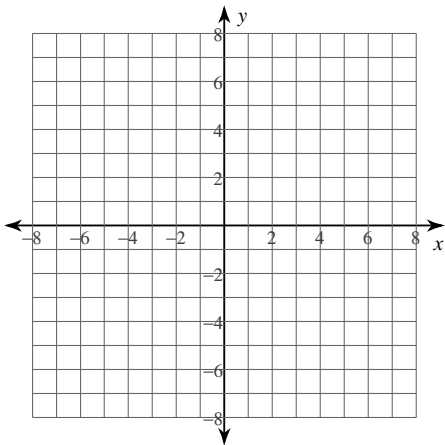
$$5) f(x) = -\frac{1}{x-2}$$



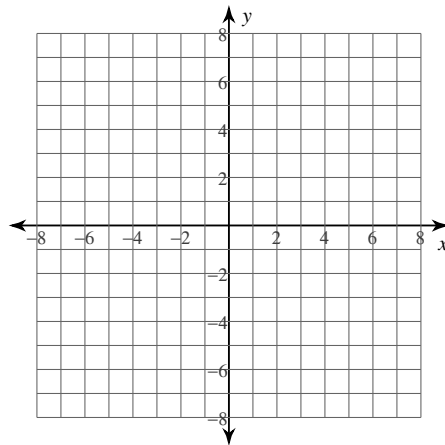
$$6) f(x) = -\frac{2}{x+3}$$



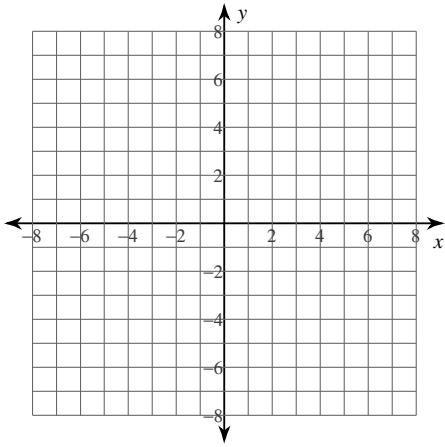
$$7) f(x) = -\frac{2}{x}$$



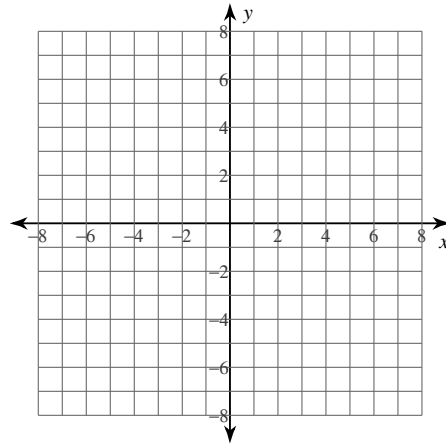
$$8) f(x) = \frac{4}{x-1}$$



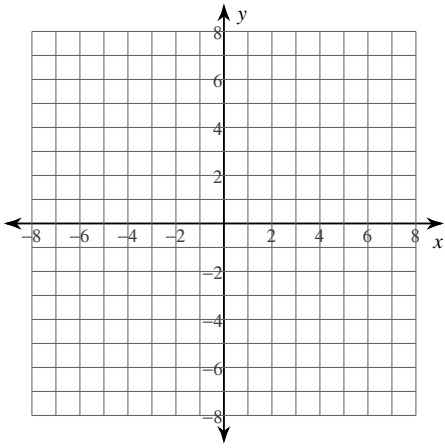
$$9) f(x) = -\frac{4}{x-2}$$



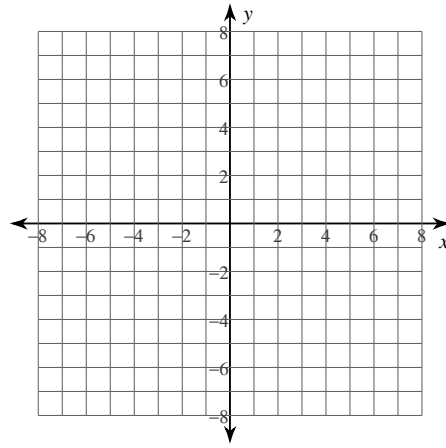
$$10) f(x) = -\frac{1}{x-1} + 1$$



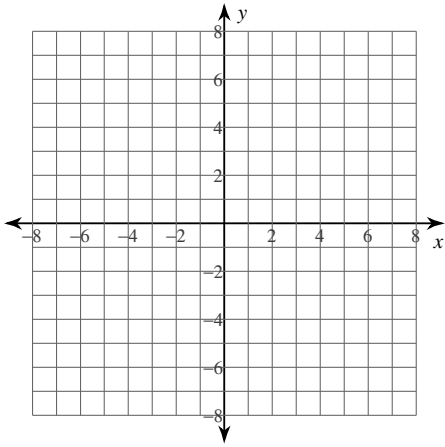
$$11) f(x) = -\frac{2}{x-2} + 3$$



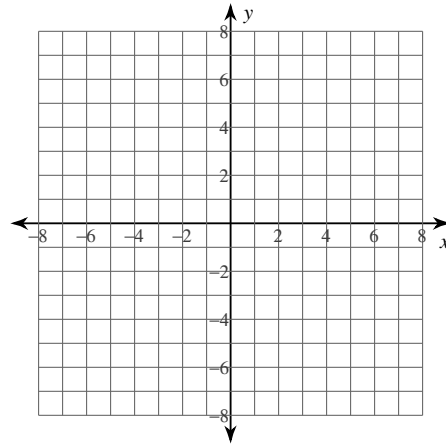
$$12) f(x) = -\frac{1}{x+3} + 3$$



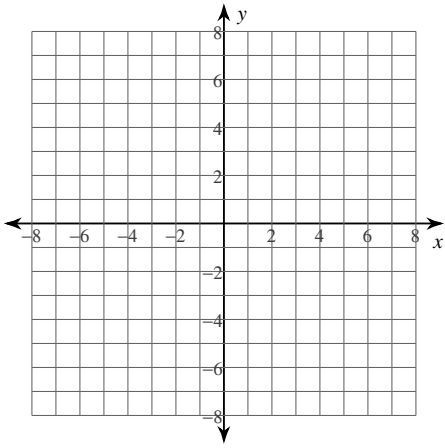
$$13) f(x) = \frac{1}{x-2} - 3$$



$$14) f(x) = \frac{2}{x+2} + 3$$



$$15) f(x) = -\frac{4}{x-2} - 1$$

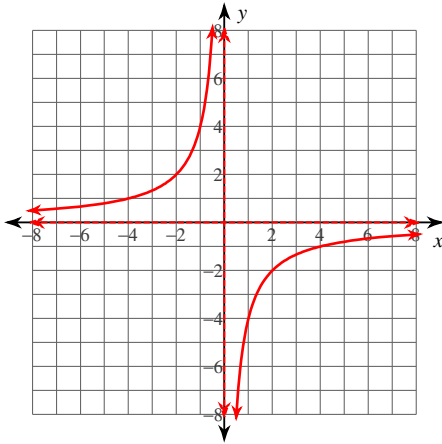


Assignment

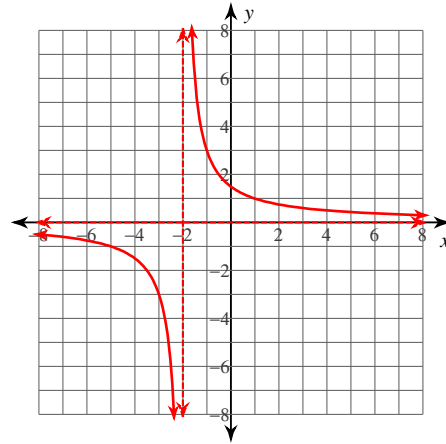
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Identify the vertical asymptotes and horizontal asymptote of each. Then sketch the graph.

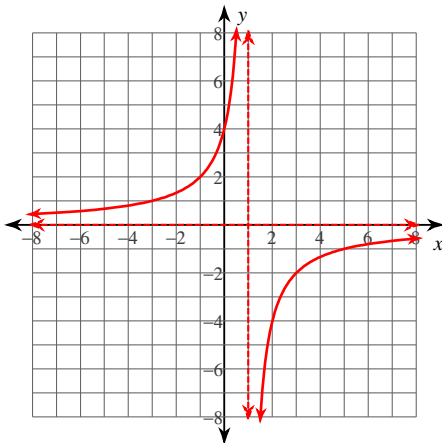
1) $f(x) = -\frac{4}{x}$

Vertical Asym.: $x = 0$
Horz. Asym.: $y = 0$

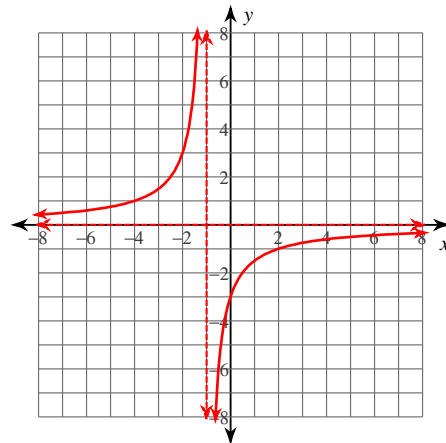
2) $f(x) = \frac{3}{x+2}$

Vertical Asym.: $x = -2$
Horz. Asym.: $y = 0$

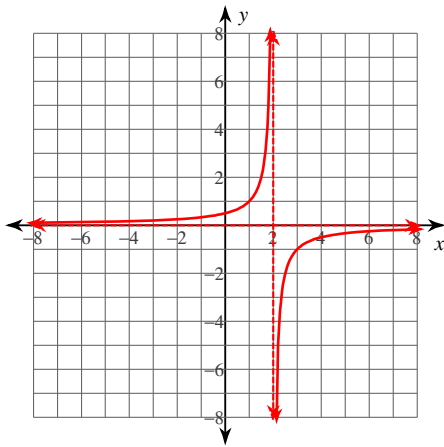
3) $f(x) = -\frac{4}{x-1}$

Vertical Asym.: $x = 1$
Horz. Asym.: $y = 0$

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

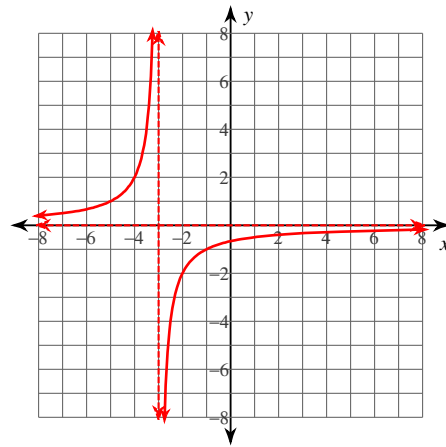
Vertical Asym.: $x = -1$
Horz. Asym.: $y = 0$

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



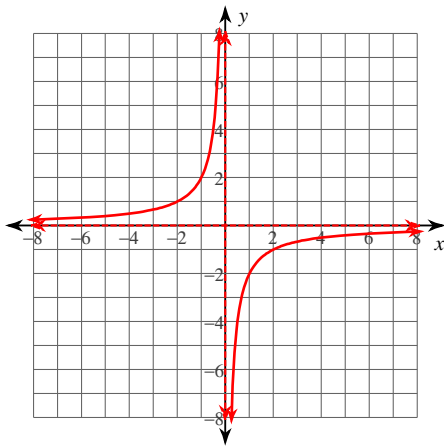
Vertical Asym.: $x = 2$
Horz. Asym.: $y = 0$

$$6) f(x) = -\frac{2}{x+3}$$



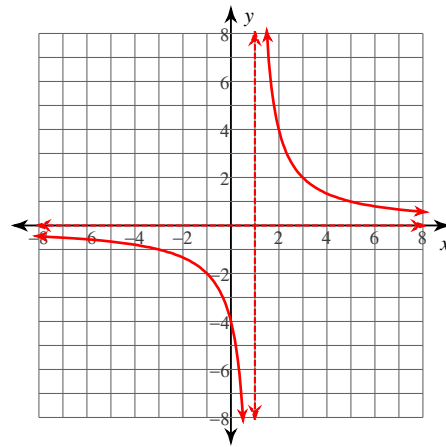
Vertical Asym.: $x = -3$
Horz. Asym.: $y = 0$

$$7) f(x) = -\frac{2}{x}$$



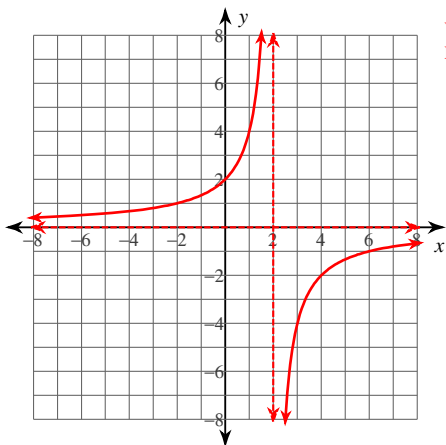
Vertical Asym.: $x = 0$
Horz. Asym.: $y = 0$

$$8) f(x) = \frac{4}{x-1}$$



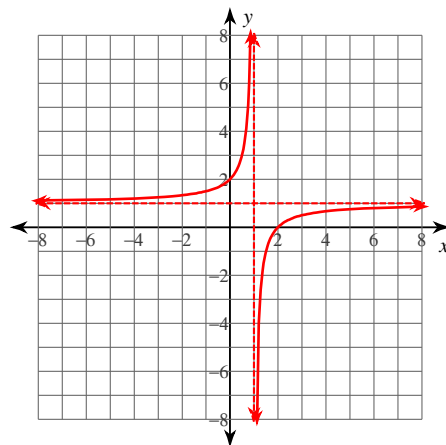
Vertical Asym.: $x = 1$
Horz. Asym.: $y = 0$

$$9) f(x) = -\frac{4}{x-2}$$



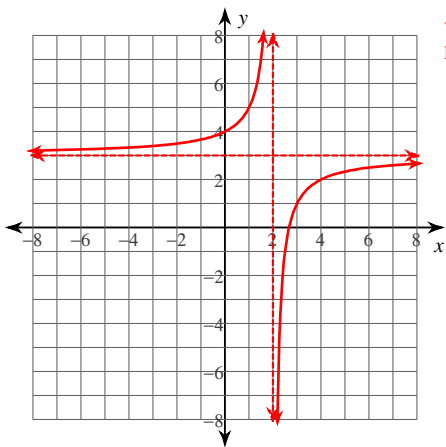
Vertical Asym.: $x = 2$
Horz. Asym.: $y = 0$

$$10) f(x) = -\frac{1}{x-1} + 1$$



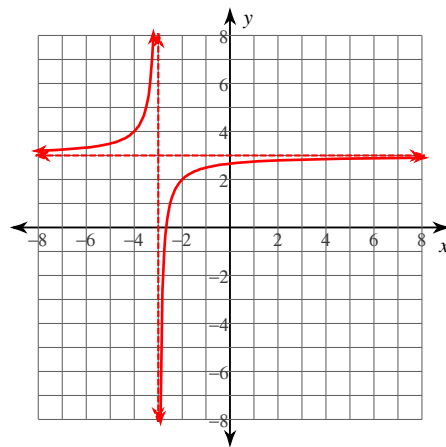
Vertical Asym.: $x = 1$
Horz. Asym.: $y = 1$

$$11) f(x) = -\frac{2}{x-2} + 3$$



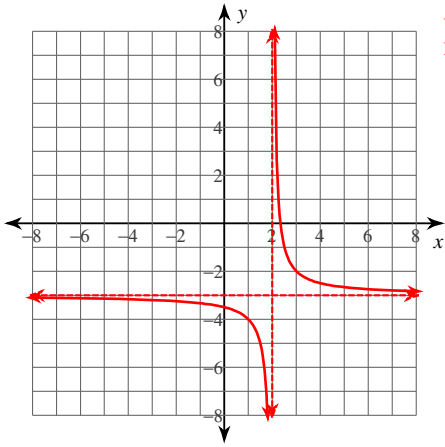
Vertical Asym.: $x = 2$
Horz. Asym.: $y = 3$

$$12) f(x) = -\frac{1}{x+3} + 3$$



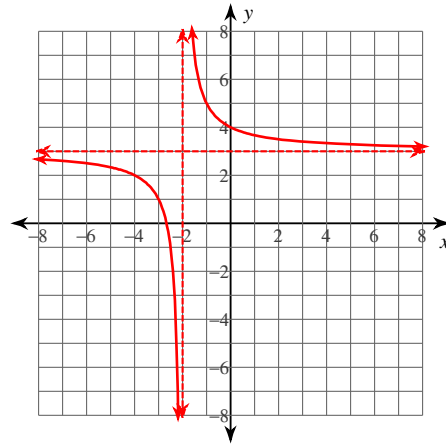
Vertical Asym.: $x = -3$
Horz. Asym.: $y = 3$

$$13) f(x) = \frac{1}{x-2} - 3$$



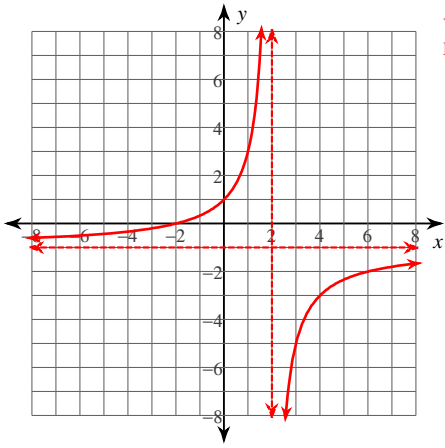
Vertical Asym.: $x = 2$
 Horz. Asym.: $y = -3$

$$14) f(x) = \frac{2}{x+2} + 3$$



Vertical Asym.: $x = -2$
 Horz. Asym.: $y = 3$

$$15) f(x) = -\frac{4}{x-2} - 1$$



Vertical Asym.: $x = 2$
 Horz. Asym.: $y = -1$