

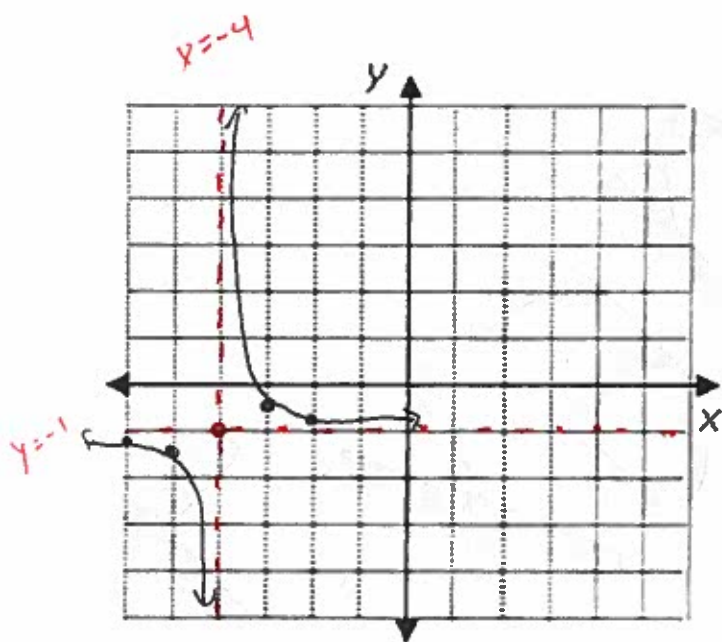
Identify the asymptotes (horizontal and vertical) of each function. Then graph the function. State the domain and range:

$$g(x) = \frac{1}{\frac{2}{x+4} - 1} \quad \text{or} \quad g(x) = \frac{.5}{x+4} - 1 \quad \text{center } (-4, -1)$$

to the right of -4 {

x	y
-3	-.5
-2	-.75
-5	-1.5
-6	-1.25

to the left of -4 {



V.A. $x = -4$

H.A. $y = -1$

D: $x \neq -4; \mathbb{R}$

R: $y \neq -1; \mathbb{R}$

For $x = -3$

$$g(x) = \frac{.5}{(-3)+4} - 1$$

$$= .5 - 1$$

$$= -.5$$

For $x = -2$

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

$$= \frac{.5}{2} - 1$$

$$= \frac{1}{4} - 1$$

$$= -\frac{3}{4} \text{ or } -.75$$

For $x = -5$

$$g(x) = \frac{.5}{(-5)+4} - 1$$

$$= -.5 - 1$$

$$= -1.5$$

For $x = -6$

$$g(x) = \frac{.5}{(-6)+4} - 1$$

$$= \frac{.5}{-2} - 1$$

$$= -\frac{1}{4} - 1$$

$$= -1.25$$