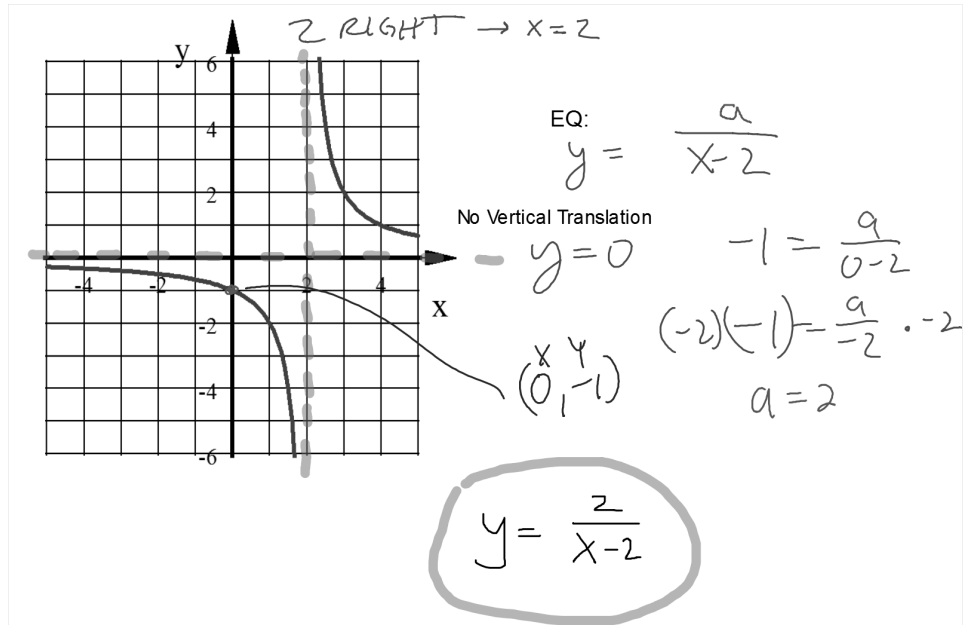
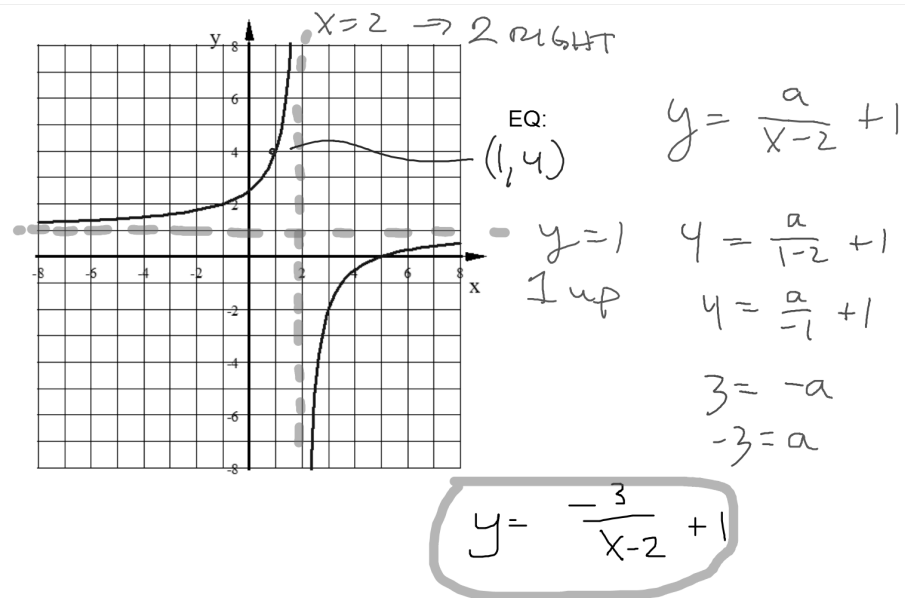
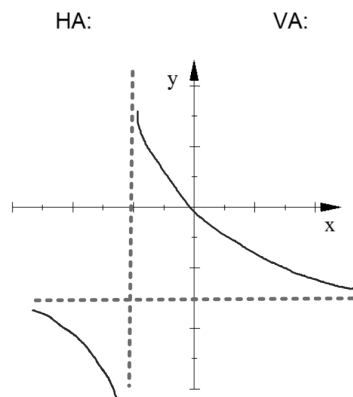




Graph this function. State the equations of the asymptotes.



$$y = \frac{-15}{x+2} - 3$$

2 units left: VA: $x = -2$

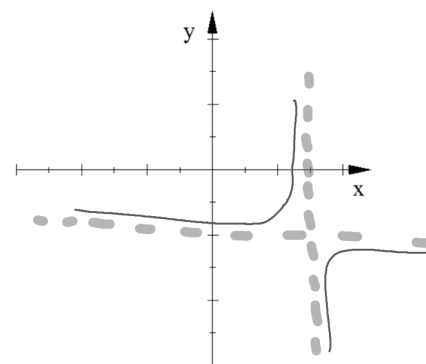
3 units down: HA: $y = -3$

"Quadrants" II and IV

"far" from "origin"

Graph this function. State the equations of the asymptotes.

HA: $y = -2$ VA: $x = 3$



$$y = \frac{-0.1}{x-3} - 2$$

3 units right: VA: $x = 3$

2 units down: HA: $y = -2$

"Quadrants" II and IV

"close" to the "origin"

You can now finish Hwk #35

Practice Sheet Sec 9-2

Graphs of Reciprocal Functions

Some of the skills required in Chapter 9:

Simplify each:

$$\frac{96}{40} \div 4 = \frac{24 \div 2}{10 \div 2} = \left(\frac{12}{5} \right)$$

cross cancel then multiply

$$^4 \frac{16}{15} \cdot \frac{9}{20}^3 = \left(\frac{12}{25} \right)$$

Simplify:

$$\frac{2}{2} \cdot \frac{7}{12} + \frac{3}{8} \cdot \frac{3}{3} = \frac{14}{24} + \frac{9}{24} = \left(\frac{23}{24} \right)$$

Solve for Q . State restrictions on the variables.

$$\frac{RQ - K}{M} = E$$

1st: Multiply by M
2nd: Add K
3rd: Divide by R

$$m \neq 0$$
$$R \neq 0$$

$$Q = \frac{EM + K}{R}$$

Solve.

$$\frac{3}{2} \cdot \frac{w}{8} - \frac{w}{12} \cdot \frac{2}{2} + \frac{w}{3} \cdot \frac{8}{8} = 5 \cdot \frac{24}{24}$$

$$24 \left(\frac{3w}{24} - \frac{2w}{24} + \frac{8w}{24} \right) = \left(\frac{120}{24} \right) 24$$

$$3w - 2w + 8w = 120$$

$$9w = 120$$

$$w = \frac{120}{9} = \frac{40}{3}$$