

$$f(x) = \frac{1}{x+2} - 9$$

1. VA:  $x = -2$   
HA:  $y = -9$

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

2. VA:  $x = 0$   
HA:  $y = 5$

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

3. VA:  $x = 3$   
HA:  $y = 0$

$$f(x) = \frac{-2}{x+1} + 8$$

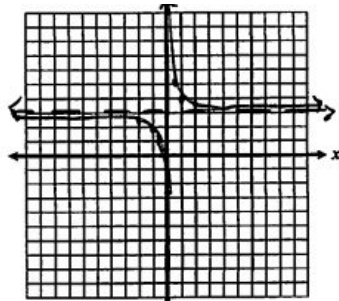
4. VA:  $x = -1$       HA:  $y = 8$

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

5.

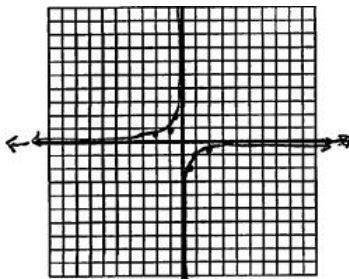
$$f(x) = \frac{1}{x+7}$$

6.



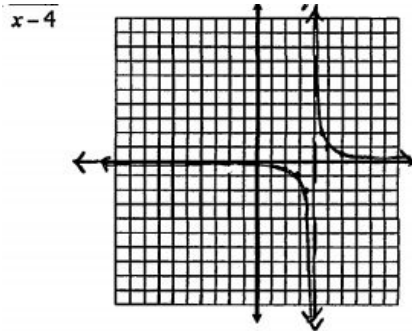
in:  $\{x | x \neq 0\}$       VA:  $x = 0$

7. re:  $\{y | y \neq 3\}$       HA:  $y = 3$



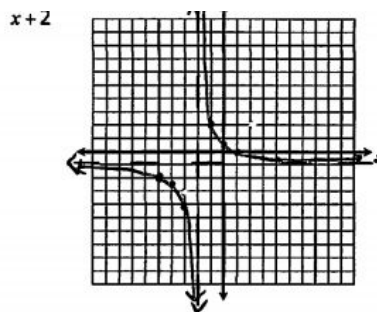
in:  $\{x | x \neq 0\}$       VA:  $x = 0$

8. re:  $\{y | y \neq 0\}$       HA:  $y = 0$



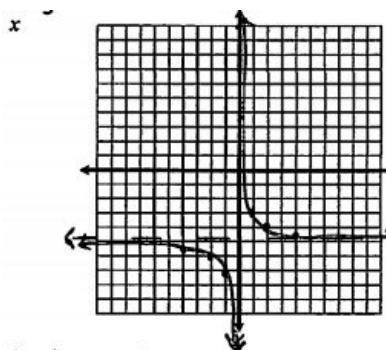
$\{x|x \neq 4\}$  VA:  $x=4$

9.  $\{y|y \neq 0\}$  HA:  $y=0$



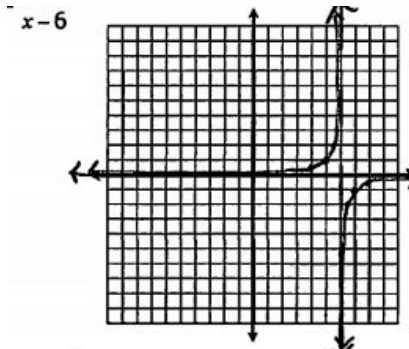
$\{x|x \neq -2\}$  VA:  $x=-2$

10.  $\{y|y \neq -1\}$  HA:  $y=-1$

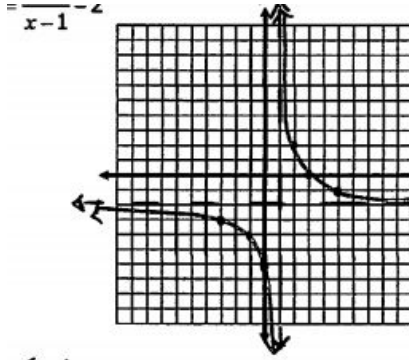


$\{x|x \neq 0\}$  VA:  $x=0$

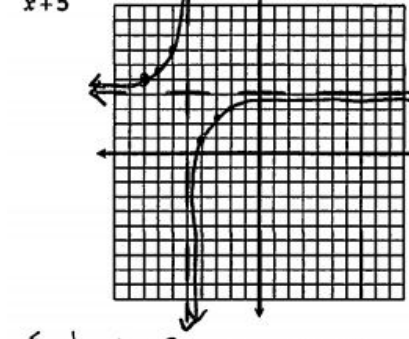
11.  $\{y|y \neq -5\}$  HA:  $y=-5$



$\{x | x \neq 6\}$  VA:  $x=6$   
 12.  $\{y | y \neq 0\}$  HA:  $y=0$



$\{x | x \neq 1\}$  VA:  $x=1$   
 13.  $\{y | y \neq -2\}$  HA:  $y=-2$



$\{x | x \neq 5\}$  VA:  $x=5$   
 14.  $\{y | y \neq 4\}$  HA:  $y=4$