# PLEASE WRITE <br> SECTION NUMBER AND PROBLEM NUMBERS AT THE TOP OF EACH HOMEWORK ASSIGNMENT!! 

Also include:

first and last name class period

## 2.1 \#55-65odd CHECK ANSWERS!!

 State the domain. Show work and state answer using an inequality AND interval notation for your final answer!55. $\mathrm{x} \neq 3 \rightarrow(-\infty, 3) \cup(3, \infty)$
56. $\mathrm{x} \neq \pm 1 \rightarrow(-\infty,-1) \cup(-1,1) \cup(1, \infty)$
57. $\mathrm{t} \geq-1 \rightarrow[-1, \infty)$

## 2.1 \#55-65odd CHECK ANSWERS!!

 State the domain. Show work and use interval notation for your final answer !61. $\mathrm{t}=$ all real numbers $\rightarrow(-\infty, \infty)$
62. $\mathrm{x} \leq \frac{1}{2} \rightarrow\left(-\infty, \frac{1}{2}\right]$
63. $x \geq-2$ and $x \neq 3 \rightarrow[-2,3) \cup(3, \infty)$

### 2.2 Notes: vertical line test

Vertical Line Test Use the Vertical Line Test to determine whether the curve is a graph of a function of $x$.


Function: each domain value (input) has only one range value (output)
2.2 Notes: graphing piecewise functions (example)

$$
\begin{array}{cc}
y=2 \frac{x / y}{-5} \frac{y}{2} & y=x+4 x \mid y \\
-6 / 2 & \frac{x}{-5}-1 \\
0 / 4 \\
\text { ron feral } & 4
\end{array}
$$

Graph:

