Name: See me if you don't know how I got an answer!
Per: $\qquad$
Honors I -Chapters 1 \& 2 Practice Test

## SHOW ALL YOUR WORK

Evaluate or simplify each expression.

1. $\frac{3+7^{2}(5-2)}{5^{2}-10}$

2. $4|2 x+7|+3 x$ when $x=-2$

3. $(2 x-15)(-3)$
$-6 x+45$
4. $4+7(x-5)$
$7 x-31$
5. Express the table as a relation.
$\left.\left.\begin{array}{l|l|l|l|l|}\hline x & -1 & 4 & 2 & 5 \\ \hline y & 3 & 3 & 8 & 9 \\ \hline\end{array}\right\}=(-1,3),(4,3),(2,8),(5,9)\right\}$
6. Express the mapping as a table. Label your table!

7. Write the definition of a function: pairing of inputs with outputs such that each input has only one output

Pick two letter of the alphabet: one whose graph is and one whose graph is not a function when written in lowercase.


For Problems 8-10, assume that $f(x)=x^{2}+1$ and $g(x)=3 x$

| 8. $f(2)$ | 9. $f(-1)+g(4)$ | $10 . g(4 a)$ |
| :--- | :--- | :--- |

11. Use the graph shown and write 3 sentences describing Dubai's gold sales for the entire year of 2002.


Dubai Gold Sales 2002

The sales rose to $\$ 350$ million by March and then began a steady decline to $\sim \$ 120$ million by July. Between July and August there was a rise to $\$ 200$ million and then a decline back to $\sim 120$ million by September. From September to October the sales rose to $\sim \$ 180$ million where it stayed fairly consistent throughout the rest of the year.


