2. [10 points] Indicate if each of the following statements are true or false by circling the correct answer. No justification is required.
a. [2 points] Let $g$ be the inverse of the function $f$. If $a$ and $b$ are constants such that $a=f(b)$, then $b=g(a)$.

True
False
b. [2 points] The line $2 x-3 y+100=0$ is perpendicular to the line $12 y+18 x=1$.

True
False
c. [2 points] Some of the values of the function $K$ are given in the table.

| $u$ | -3 | -1 | 2 |
| :---: | :---: | :---: | :---: |
| $K(u)$ | 2 | 3 | 4 |

The function $K$ could be linear.
True
False
d. [2 points] Some of the values of the function $Q$ are given in the table.

$$
\begin{array}{c|c|c|c|c|}
z & -3 & -1 & 1 & 3 \\
\hline Q(z) & 5 & 0.5 & -2 & -4
\end{array}
$$

The graph of the function $Q$ could be concave up .
True
False
e. [2 points] If $f(x)=2 x+1$ and $g(x)=x^{2}+1$ then $f(g(x))=2 x^{2}+3$.

True
False

