$\qquad$ Date: $\qquad$

## Analyzing Graphs of Functions and Relations Bell work

1. Complete the following statement.
a. A point where the graph intersects or meets the $\boldsymbol{x}$ or $\boldsymbol{y}$ axis is called $\qquad$ .
b. The zeros of function $\boldsymbol{f}(\boldsymbol{x})$ are $\qquad$ for which $\boldsymbol{f}(\boldsymbol{x})=\mathbf{0}$

## 2. Write T for true or F for false

a. To find the zeros of a function, set the function equal to zero and solve for the independent variable.
b. If $\boldsymbol{f}(\boldsymbol{x})$ is an odd function, then the graph is symmetric to the origin.

## Multiple Choices

3. The zero of $f(x)=2 x-4$
a.
b.
c.

$$
\begin{equation*}
(-4,0) \tag{2,0}
\end{equation*}
$$

4. Given the function $f(x)=-x^{2}+3 x-5$, what is $f(2)$ ?
a.
b. $-3$
C. 9
5. The domain of $f(x)=\frac{2}{x-5}$
a.

$$
(-\infty, 5) \cup(5, \infty,)
$$

b.
$(-\infty, 5)$
C.

$$
(-\infty, 5] \cup[5, \infty,)
$$

$\qquad$
$\qquad$

## Analyzing Graphs of Functions and Relations Bell work ANSWERS

1. Complete the following statement.
a. A point where the graph intersects or meets the $\boldsymbol{x}$ or $\boldsymbol{y}$ axis is called an intercept.
b. The zeros of function $\boldsymbol{f}(\boldsymbol{x})$ are $\boldsymbol{x}$-values for which $\boldsymbol{f}(\boldsymbol{x})=\mathbf{0}$
2. Write T for true or F for false
a. To find the zeros of a function, set the function equal to zero and solve for the independent variable.
b. If $\boldsymbol{f}(\boldsymbol{x})$ is an odd function, then the graph is symmetric to the origin.

## Multiple Choices

3. The zero of $f(x)=2 x-4$
a.
b.
C.

$$
\begin{equation*}
(-4,0) \tag{2,0}
\end{equation*}
$$

4. Given the function $f(x)=-x^{2}+3 x-5$, what is $f(2)$ ?
a.
b.
$-3$
C.

9
5. The domain of $f(x)=\frac{2}{x-5}$
a.

$$
(-\infty, 5) \cup(5, \infty,)
$$

b. $(-\infty, 5)$
c.

$$
(-\infty, 5] \cup[5, \infty,)
$$

