

Patterns and Nonlinear Functions Bell Work

Fill in the blanks with appropriate words.

1. The relationship data represented as (x,y) is termed as representation of data using _____.
2. A function is a linear function if its graph is a _____.
3. A function whose graph is not a straight line is a _____ function.
4. A rule can be taken as an _____ representing any relationship.

Graph the set of ordered pairs $(1,2)$, $(2,3)$, $(3,4)$, $(4,5)$. Determine whether the relationship represents a linear function.

Graph:

For the table given below, write the rule representing the function.

Time t (minutes)	10	20	30	40
Distance d (km)	60	110	160	210

Rule:

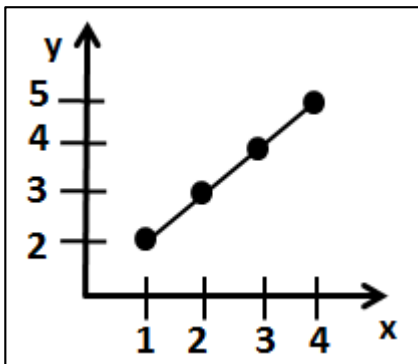
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Fill in the blanks with appropriate words.

1. The relationship data represented as (x,y) is termed as representation of data using **ordered pairs**.
2. A function is a linear function if its graph is a **straight line**.
3. A function whose graph is not a straight line is a **nonlinear** function.
4. A rule can be taken as an **equation** representing any relationship.

Graph the set of ordered pairs $(1,2)$, $(2,3)$, $(3,4)$, $(4,5)$. Determine whether the relationship represents a linear function.

Graph:



Since the graph makes a straight line, it is a linear function.

For the table given below, write the rule representing the function.

Time t (minutes)	10	20	30	40
Distance d (km)	60	110	160	210

Rule: $d = 5t + 10$