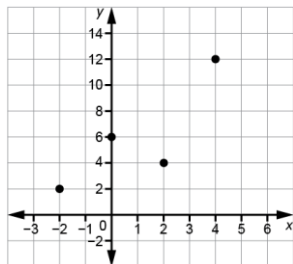


Activity 4 Assessment

Determining if a Relation is Linear

Determining if a Relation is Linear

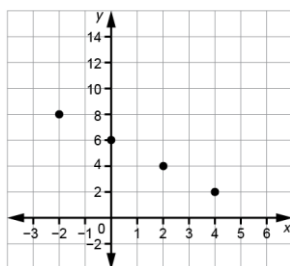
Determines from a graph whether a relation is linear



The points on the graph do not lie along a line, so the relation is not linear.

Determines whether a relation given as a table of values, set of ordered pairs, or equation is linear by graphing it

I graphed the points $(-2, 8)$, $(0, 6)$, $(2, 4)$, and $(4, 2)$. They all lie along a line, so the relation is linear.



Determines whether a relation is linear without graphing

The x -values increase by 1 each time. The y -values decrease by 3 most of the time, but not in all cases. So, the relation is not linear.

x	y
-1	12
0	9
1	5
2	3
3	0

Adjusts or adds to a graph, table of values, or set of ordered pairs to make it represent a linear relation

I changed the y -value for $x = 1$ from 5 to 6. Then the y -values decrease by 3 each time so the relation is linear.

x	y
-1	12
0	9
1	6
2	3
3	0

Observations/Documentation