

Quiz & Worksheet - Graphical, Algebraic & Numerical Symmetry About the Origin

1. The symmetry of a graph is defined as ____.

- an exact replica or reflection of a line
- a similar graph
- a graph that has two separate lines
- a graph that has a slope of 1

2. Test the following equation for symmetry about the origin:

$$x^2 = y^2 + 14$$

- The equation is symmetrical about the origin.
- The equation is symmetrical about the x-axis.
- The equation is symmetrical about the y-axis.
- The equation has no symmetry.

3.

Test the following points for symmetry about the origin:

$(-1, -5)$, $(-3, -8)$ and $(-5, -13)$; $(1, 5)$, $(3, -8)$ and $(5, -13)$

- The points have symmetry about the origin.
- The points have symmetry about the x-axis.
- The points have symmetry about the y-axis.
- The points have no symmetry.

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