## Answer on Question #67107 – Math – Analytic Geometry

## Question

If (-3,4) lies on a curve that is symmetric with respect to the x-axis, then (3,4) will also lie on the curve.

## Solution

Symmetry with respect to the x-axis means that if (x, y) is on the graph, then (x, -y) is on the graph.

Symmetry with respect to the y-axis means that if (x, y) is on the graph, then (-x, y) is on the graph.

Thus, the given statement is false because if (-3,4) lies on a curve that is symmetric with respect to the x-axis, then (-3,-4) will also lie on the curve, it is not (3,4).

Answer: False.