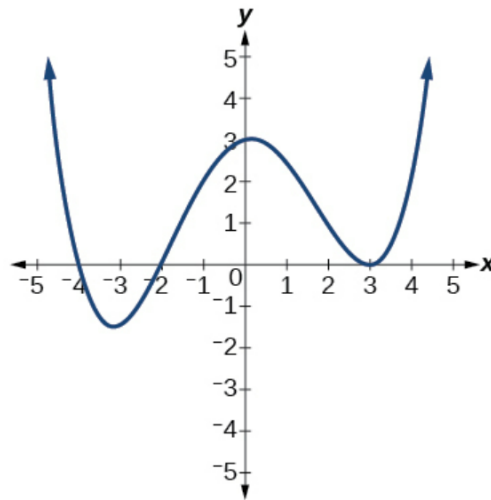


Exercise 54

For the following exercises, use the graph to identify zeros and multiplicity.



Solution

Notice where the graph crosses the x -axis: The zeros are $x = -4$, $x = -2$, and $x = 3$. The multiplicity of $x = -4$ and $x = -2$ is 1 because the graph goes through the x -axis at each of them. However, the multiplicity of $x = 3$ is 2 because the graph bounces back from the x -axis here.