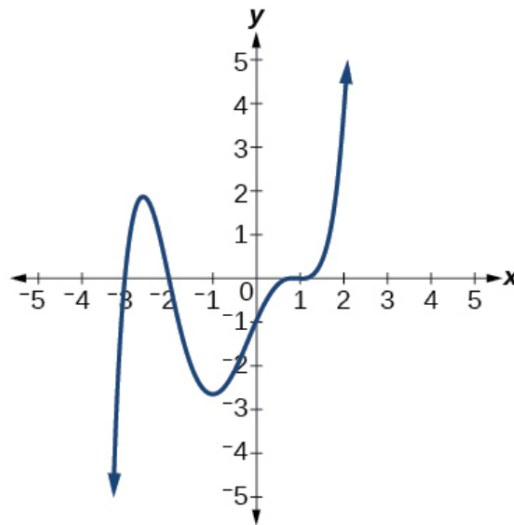


Exercise 56

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



Solution

Notice where the graph crosses the x -axis: The zeros are $x = -3$, $x = -2$, and $x = 1$. The multiplicity of $x = -3$ and $x = -2$ is 1 because the graph crosses the x -axis at each of them. However, at $x = 1$ the multiplicity is 3 because of the cubic nature of the graph locally.