

Name _____

Exploring the Mysteries of Our Galaxy: Are There Black Holes in Our Milky Way?

Short Answer

1. How do astronomers detect black holes by studying the orbits of nearby stars?
2. What are X-ray binaries, and how do they provide clues about the presence of a black hole?
3. Where are supermassive black holes typically found in galaxies, and what distinguishes them from other black holes?
4. Explain why black holes are considered regions where gravity is incredibly intense.
5. Imagine you are an astronomer tasked with finding evidence of a black hole in the Milky Way. Describe the steps and equipment you would use for this mission.

