

9 Geostationary satellites are used for communications.

Which statement about geostationary satellites is correct?

A Heavier geostationary satellites are in higher orbits.

B Lighter geostationary satellites have shorter orbital periods.

C Their orbits are in the plane of the equator of the Earth.

D Their speed is the same as the point on the Earth directly below them.

10 Two isolated stars of mass M and $4M$ are separated in space by a distance d between the