

- 9** An astronaut with a mass of 60 kg works in a geostationary satellite that is orbiting about Earth. The mass and radius of Earth are given as 6.0×10^{24} kg and 6400 km respectively.

What is the gravitational force acting on the astronaut?

- A** 13.4 N
- B** 586.2 N
- C** 588.6 N
- D** 600.0 N