## Answer on Question \#68311-Physics- Mechanics | Relativity

Why did you use the earth's gravity for this problem when this satellite is orbiting the Earth rather than an object present on Earth?

## Answer

The satellite is orbiting the Earth due to the gravitational field of Earth. Thus,

$$
m_{\text {satellite }} a=G \frac{M_{\text {Earth }} m_{\text {satellite }}}{r^{2}}
$$

where $r$ is the distance between the satellite and the center of the Earth.

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