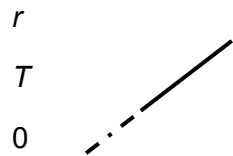**13**

The period of a one meter long pendulum T is related to the gravitational field strength g via the equation $T = \dfrac{2}{\sqrt{g}}$. An astronaut performs an experiment to measure the period of this pendulum as his spaceship moves away from the surface of the Earth.

Which graph best shows how T varies with distance r from the center of the Earth where R is the radius of Earth.

r

T

0

0

A

R

r

T

0

0

B

R

r

T

0

0

C

R

r

T

0

0

D

R