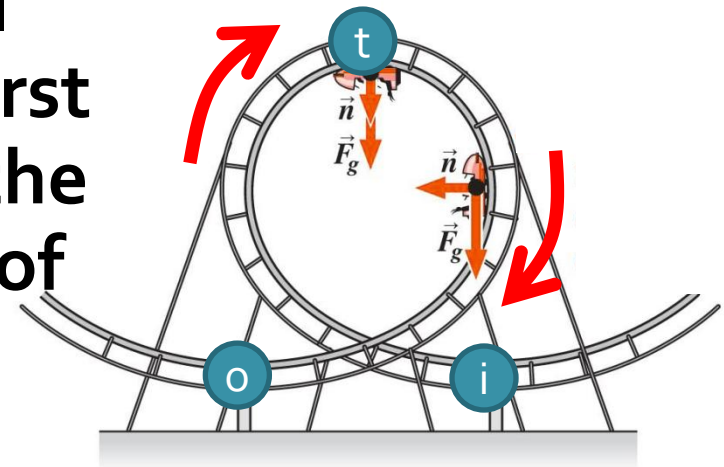


- The figure shows a logging vehicle pulling a redwood log. Is the frictional force in this case (A) greater than, (B) equal to, or (C) less than the weight multiplied by the coefficient of friction?

- On a roller coaster loop, your car goes in (i) and reach the top (t) and then comes out (o). What are the signs of the work of the gravitational force on the car for the first half (from i to t) and for the second half (from t to o) of the motion?



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- A. Positive, Positive
- B. Negative, Positive
- C. Positive, Negative
- D. Negative, Negative
- E. Zero, Zero

[Circular motion and work]

The orbit of the Earth around the Sun is a circle, to a good approximation. During the period of one year, the Sun does _____ work on the Earth.

- A. Positive
- B. Zero
- C. Negative