

- Question 2

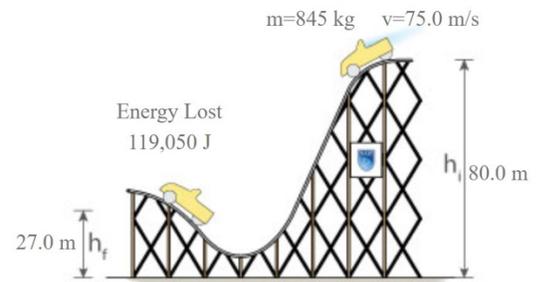
1 point

How Did I Do?

As shown in the diagram below, a 845 kg roller-coaster is travelling at a velocity of 75.0 m/s when it is 80.0 m from the ground. By the time the coaster reached a position that was 27.0 m from the ground the coaster lost 119,050 J of energy.

Determine the velocity of the coaster, when it is 27.0 m from the ground.

Use 3-significant digits in your answer and don't forget your datum line.

- Question 3

1 point

How Did I Do?

How much power is needed to vertically lift 498 kg up 44.6 meters in 5.50 minutes?

be sure to use 3 significant digits for your answer

- Question 4

1 point

How Did I Do?

If the 91.0 tonne box was dragged 20.8 m by a tractor, how much work did the tractor do if it pulled with a force of 60.0 kN, at an angle of 10.0°, as shown in the diagram below?

use 3 significant digits in your answer