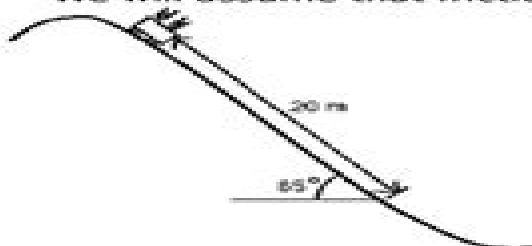
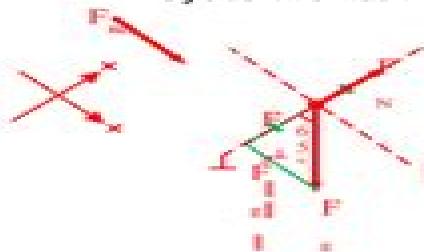


Net Force Particle Model Worksheet 4: Newton's 2nd Law and Component Forces

1. A rollercoaster car, 300 kg with passengers, accelerates down a 65° hill. We will assume that friction is small enough that it can be ignored.



a. Draw a force diagram for the system of car and riders.



b. Determine the value of the component of the gravitational force parallel to the hill.

$$F_{g\parallel} = (\sin \theta)F_g = (\sin 65^\circ)(300 \text{ kg})(10 \frac{\text{m}}{\text{s}^2}) = 2720 \text{ N}$$

c. What is the acceleration of the rollercoaster down the hill?

$$a = \frac{F_{\text{net}}}{m} = \frac{F_{g\parallel}}{m} = \frac{2720 \text{ N}}{300 \text{ kg}} = 9.1 \frac{\text{m}}{\text{s}^2}$$

d. If they are traveling 4 m/s at the time shown in the picture, how fast will they be traveling at the end of the straight stretch, 20 m later?

$$\begin{aligned} v_f^2 - v_i^2 &= 2a\Delta x \Rightarrow v_f^2 = 2a\Delta x + v_i^2 \\ v_f^2 &= 2(9.1 \frac{\text{m}}{\text{s}^2})(20 \text{ m}) + (4 \frac{\text{m}}{\text{s}})^2 = v_f^2 = 364 \frac{\text{m}^2}{\text{s}^2} + 16 \frac{\text{m}^2}{\text{s}^2} \\ v_f^2 &= 380 \frac{\text{m}^2}{\text{s}^2} \Rightarrow v = \pm \sqrt{380 \frac{\text{m}^2}{\text{s}^2}} \sim 20 \frac{\text{m}}{\text{s}} \end{aligned}$$

Answer Key Net Force Particle Model 2

Arturo Cuomo

Answer Key Net Force Particle Model 2:

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