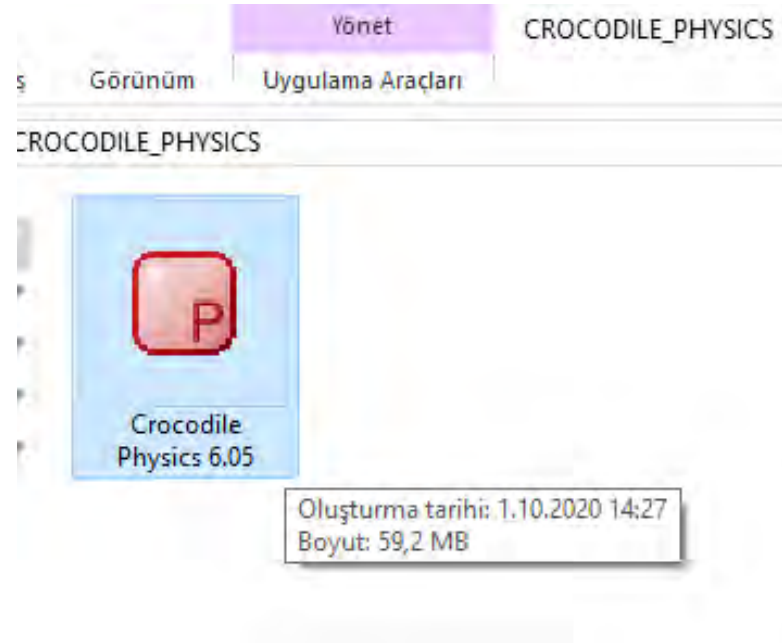
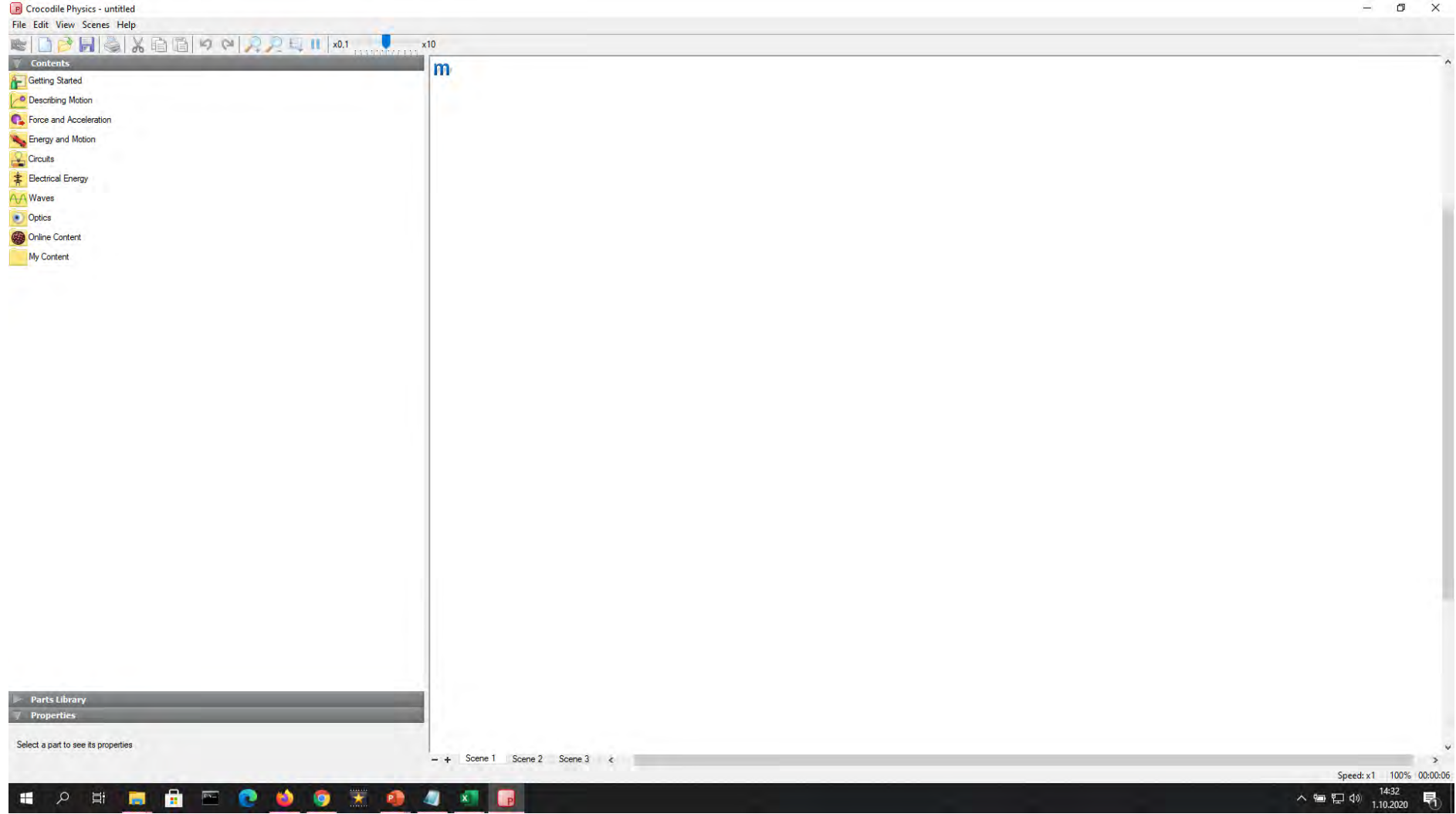


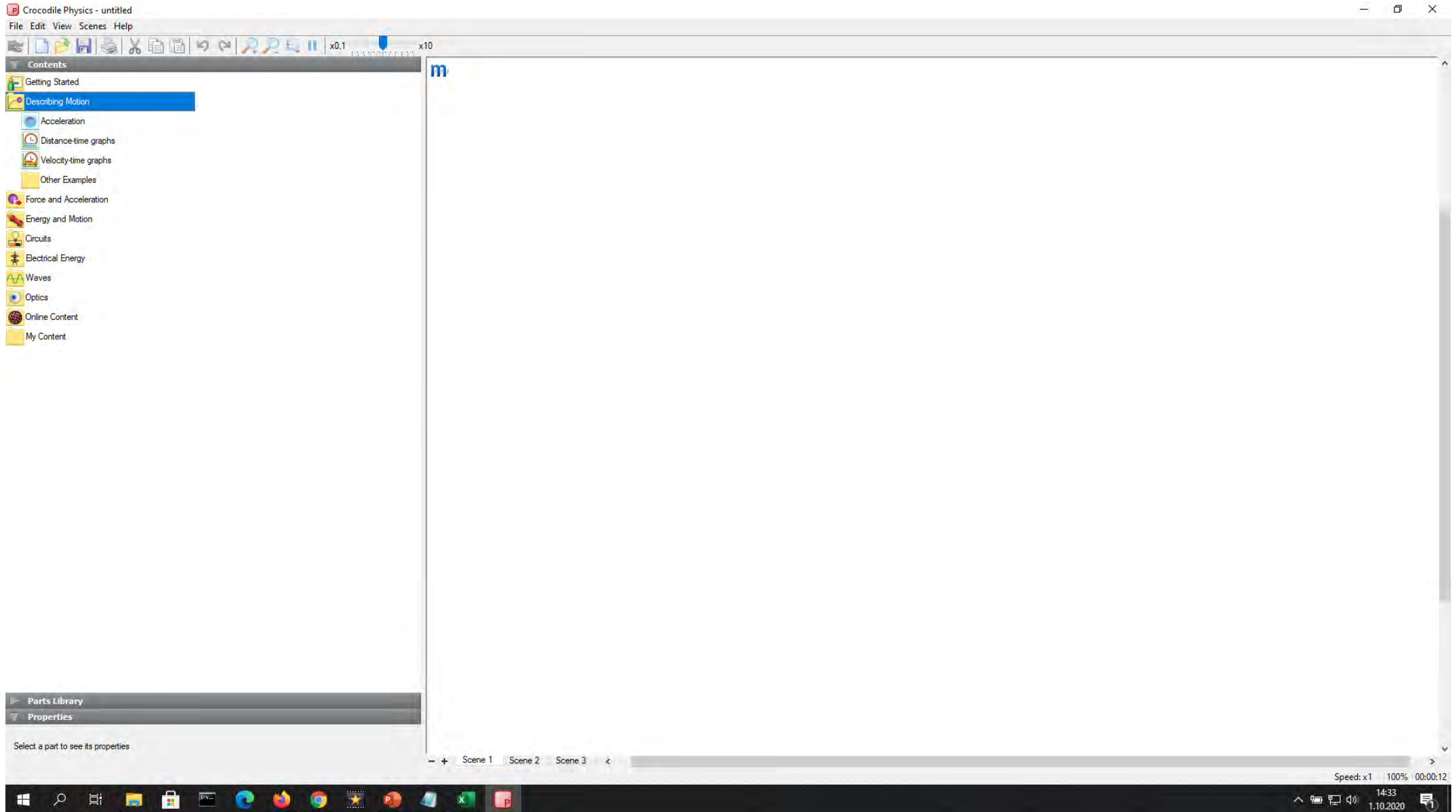
CROCODILE PHYSICS 6.05 PROGRAMINI ÇALIŞTIRINIZ



Karşınıza bu şekilde bir arayüz çıkacaktır.



«Describing motion» klasörünü seçin.



«velocity-time» grafiğini seçin.

The screenshot displays the Crocodile Physics software interface. The main window is titled "Crocodile Physics - Velocity-time graphs.cxp". The left sidebar contains a "Contents" panel with the following items: "Getting Started", "Describing Motion", "Acceleration", "Distance-time graphs", "Velocity-time graphs" (highlighted), "Other Examples", "Velocity-time graphs", "Force and Acceleration", "Energy and Motion", "Circuits", "Electrical Energy", "Waves", "Optics", "Online Content", and "My Content". Below the sidebar is a "Parts Library" and "Properties" section. The main workspace shows a "Velocity-time graphs" kit. It features a graph titled "Velocity-time graphs (m)" with a y-axis from 0 to 200 and an x-axis from 0 to 50. The x-axis is labeled "(s) Simulation time". To the left of the graph is a "Property..." button and a selection area with icons for various vehicles. Below the graph is a 3D visualization of a race track with a checkered flag. At the bottom of the kit, there is a text box that reads: "In this kit you will learn about the shapes of velocity-time graphs for bodies moving with constant velocity." The bottom status bar shows "Speed: x1", "100%", "00:00:05", and the date "1.10.2020".

Bir aracı sürükleyerek aşağı çekiniz.

Crocodile Physics - Velocity-time graphs.xpr

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Parts Library

Properties

Small car

Small car

Properties

Mass: 32 kg

Material: Metal

Static friction: 0.7

Kinetic friction: 0.6

Elasticity: 0.9

Drag coefficient: 2.1

Size

General

Image

Forces

Velocity-time graphs

(m)

Property...

Simulation time (s)

Choose one of the cars and drag it onto the racetrack.

Scene 1

Speed: x1 100% 00:00:21

14:34 1.10.2020

Grafiğin yanındaki hedef işaretini aracın üstüne sürükleyiniz.

Crocodile Physics - Velocity-time graphs.xcp

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Parts Library

Properties

Small car

Properties

Mass: 32 kg

Material: Metal

Static friction: 0.7

Kinetic friction: 0.6

Elasticity: 0.9

Drag coefficient: 2.1

Size

General

Image

Forces

Velocity-time graphs

(m)

Property...

200

150

100

50

0

0 10 20 30 40 50

(s) Simulation time

Plot a property of your chosen car by dragging the **target symbol** from the graph to the **car**.

Scene 1

Speed: x1 100% 00:00:39

14:40

1.10.2020

Grafiğin «properties» kısmına tıklayarak açınız.

The screenshot displays the Crocodile Physics software interface. The main window is titled "Crocodile Physics - Velocity-time graphs.cxp". The left sidebar contains a "Contents" panel with a tree view showing various physics topics, with "Velocity-time graphs" selected. Below this is a "Parts Library" panel showing the "Small car" object with its properties (Mass: 32 kg, Material: Metal, Static friction: 0.7, Kinetic friction: 0.6, Elasticity: 0.9, Drag coefficient: 2.1) and tabs for Size, General, Image, and Forces.

The main simulation area shows a "Velocity-time graphs" window. It features a graph with a vertical axis labeled "(m)" and a horizontal axis labeled "Simulation time". A red car is shown on a track with a checkered flag. A context menu is open over the car, listing various properties that can be plotted on the graph, including Acceleration (magnitude), Acceleration (x), Acceleration (y), Angle of rotation, Angular acceleration, Angular velocity, Density, Depth, Displacement (x), Displacement (y), Distance, Drag coefficient, Driving force (magnitude), Driving force (x), Driving force (y), Elasticity, Gravitational potential energy, Height, Kinetic energy (rotational), Kinetic energy (total), Kinetic energy (translational), Kinetic friction, Mass, Moment of inertia, Momentum (x), Momentum (y), Net force (translational), Speed, Static friction, Torque, Velocity (magnitude), Velocity (x), Velocity (y), Volume, Weight, and Width.

The bottom status bar shows "Speed: x1", "100%", and "00:00:44". The Windows taskbar at the bottom indicates the date and time as "14:41 1.10.2020".

Buradan «velocity(x)» seçeneğini seçiniz.

The screenshot displays the Crocodile Physics software interface. The main window is titled "Velocity-time graphs" and shows a simulation of a car on a track. A graph on the right plots velocity against simulation time. The "Properties" menu is open, showing a list of physical properties. The "Velocity (x)" option is highlighted. The "Parts Library" on the left shows the "Small car" properties, including Mass (32 kg), Material (Metal), Static friction (0.7), Kinetic friction (0.6), Elasticity (0.9), and Drag coefficient (2.1).

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Parts Library

Properties

Small car

Properties

Mass: 32 kg

Material: Metal

Static friction: 0.7

Kinetic friction: 0.6

Elasticity: 0.9

Drag coefficient: 2.1

Size

General

Image

Forces

Velocity-time graphs

(m)

200

20 30 40 50

Simulation time

Set this property to Velocity (x) choosing from the list.

property...'

Scene 1

Speed: x1 100% 00:01:03

14:41 1.10.2020

Aracın ortasından tutarak x yönünde sabit hız veriniz.

Crocodile Physics - Velocity-time graphs.xcp

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Velocity-time graphs

(km·h⁻¹)

Velocity (x)

(s) Simulation time

19.27 km·h⁻¹

In this kit you will learn about the shapes of velocity-time graphs for bodies moving with constant velocity.

Scene 1

Speed: x1 100% 00:00:01

14:43 1.10.2020

Grafiğin oluşumunu inceleyerek soruları cevaplayınız.

Crocodile Physics - Velocity-time graphs.xcp

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Velocity-time graphs

(km·h⁻¹)

Velocity (x)

(s) Simulation time

Which of the following best describes the shape of the graph?

- A. a horizontal straight line
- B. a straight line sloping upwards
- C. a curved line becoming steeper

Scene 1

Speed: x1 100% 00:00:14

14:46 1.10.2020