

Wind-Up Car

Wind-Up Car

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Summary	Students will produce an equation from a graph, based on an engineering-context.
Goals	1. The students will be able to write an equation about an engineering-context story.
Materials	Handouts
Duration	15 minutes
Keywords	Contextualized Situations Linear Functions Production of Equations Slope y-intercept

Activity Plan:

1. Students start class with the following handouts and are asked to write the equation (Handout Page 1):

The graph below shows the distance that your wind-up car is from the doorway as a function of how many times its knob is turned. Write an equation representing the distance that your wind-up car is from the starting line as a function of how many times its knob is turned.

2. Ask students to describe what the y-intercept means in the given context.

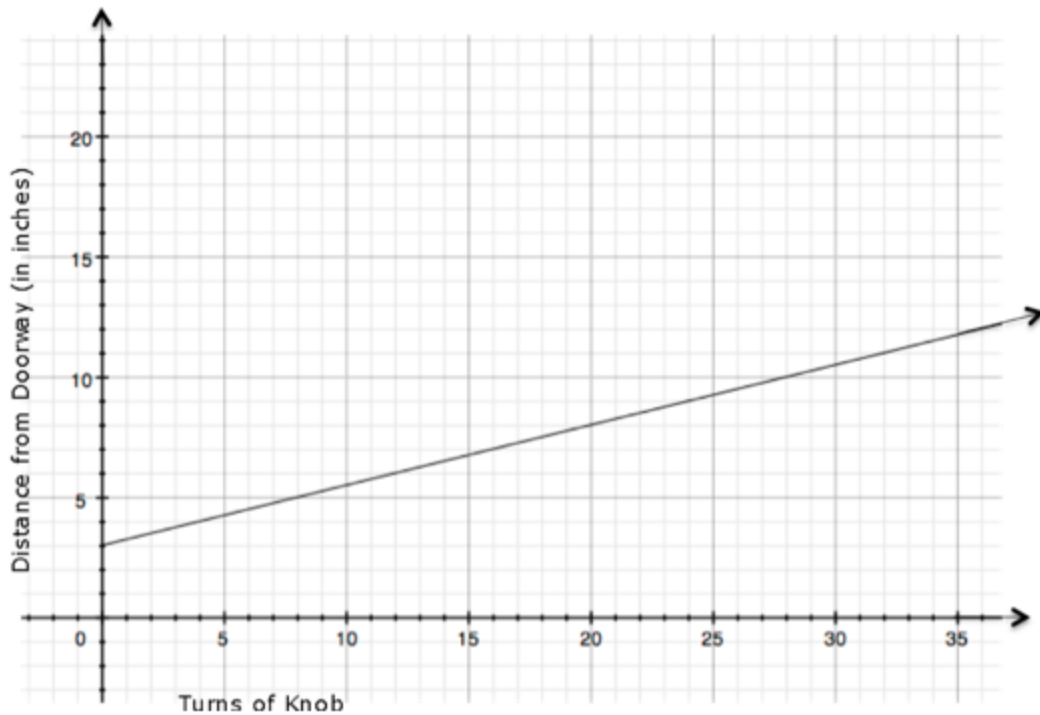
3. Ask students to describe what the slope means in the given context.

Handout: Wind-Up Car

(Page 1)

Name: _____ Date: _____

The graph below shows the distance that your wind-up car is from the doorway as a function of how many times its knob is turned:



Write an equation representing the distance that your wind-up car is from the starting line as a function of how many times its knob is turned: