Braking Distance

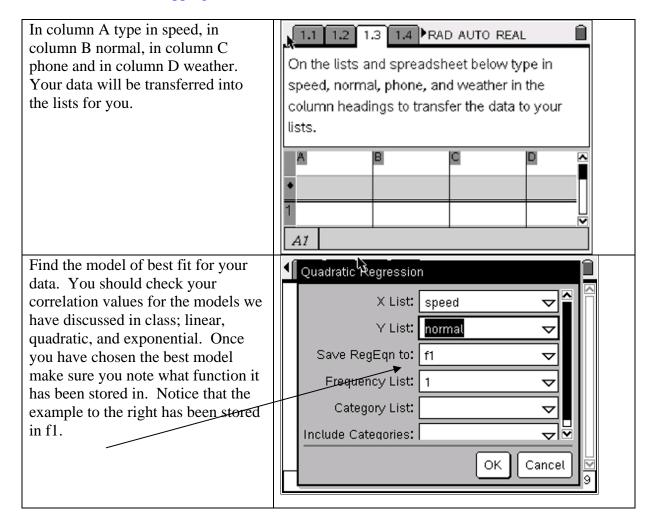
Leslie Mattern Sevier County High School

Algebra I or Algebra II

Listed in your document you will find data that shows the number of meters it takes to stop a vehicle at a given speed under various conditions. Those conditions are stated as follows:

- Normal driving conditions
- Driving while using a cell phone
- Driving in wet weather

The overall stopping distance given to you takes into consideration both thinking time and braking time. The data was collected from a simulator provided by www.ask.com/stoppingdistances.



1.			
2.			
3.			
Speed vs normal Speed vs cell phone	on best modeled each g		
• •	tions to find the distand h. List in the table belo	ce it would take to stop	when traveling 55,
Speed	Normal Conditions	Using a Cell Phone	Wet Weather
55			
65			

Record your equations below and round all values to the nearest thousandths position.

6. On pages 2.2 through 2.4 you will find data which factors into avoiding a pedestrian while driving and the subsequent injury consequences to that pedestrian. Write compound inequalities describing what could happen to a pedestrian hit at different speeds based on the driving conditions.

75

Conditions	Possibly	Seriously	Killed
	Injured	Injured	
Normal			
Cell Phone			
Wet Weather			

7.	Looking at the data presented in this document what have you discovered about driving conditions and speed? Write your findings in paragraph form.