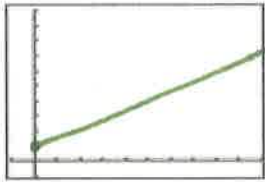
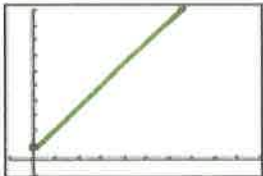


1. Sketch the plots of each of the five trials on the axes provided.



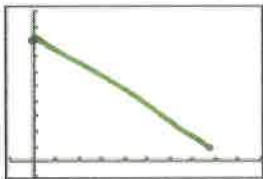
Trial 1

Starting Distance 1 ft	Type of Motion slow, steady AWAY from CBR	Describe the graph increasing
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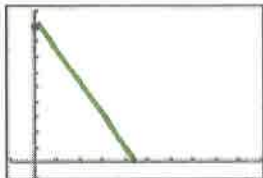
Trial 2

Starting Distance 1 ft	Type of Motion more quickly AWAY from CBR	Describe the graph increasing steep
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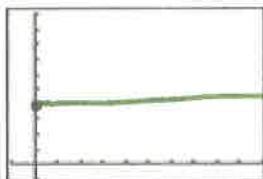
Trial 3

Starting Distance 8 ft	Type of Motion slow, steady TOWARDS CBR	Describe the graph decreasing flatter
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Trial 4

Starting Distance 8 ft	Type of Motion more quickly TOWARDS CBR	Describe the graph decreasing steeper
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Trial 5

Starting Distance 4 ft	Type of Motion standing still	Describe the graph horizontal, flat line
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2. For Trials 1 and 2, how does the steepness of the graphs compare?

Trial 2 is much steeper (harder to climb hill)

3. For Trials 3 and 4, how does the steepness of the graphs compare?

Trial 3 is less steep (more flat)

4. How do the graphs from Trials 1 and 2 differ from the graphs for Trials 3 and 4?

Trial 1 & 2 increase but 3 & 4 are decreasing

5. What effect does changing speed have on the Distance-Time plot?

changing speed makes line steeper or flatter

6. What effect does changing direction have on the plot?

changing direction changes if the graph increases or decreases

7. Complete the statements

a. The faster the speed, the steeper the graph.

b. Moving away from the CBR makes a graph increase from left to right, and moving toward the CBR makes a graph decrease from left to right.