**Intro**

Pablo’s science class is growing plants. He recorded the height of his plant each day for 10 days. The plant’s height, in cm, over time is in the scatter plot.

*(If linear, complete)*

Slope value: \_\_\_\_ Slope units: \_\_\_\_\_\_\_\_\_\_\_\_\_\_per\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Slope Interpretation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Y-intercept value: \_\_\_\_ Y-intercept unit: \_\_\_\_\_\_\_\_\_\_\_\_\_

Y-intercept Interpretation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Example 1**

A weather team records the weather each hour after sunrise one morning in May. The

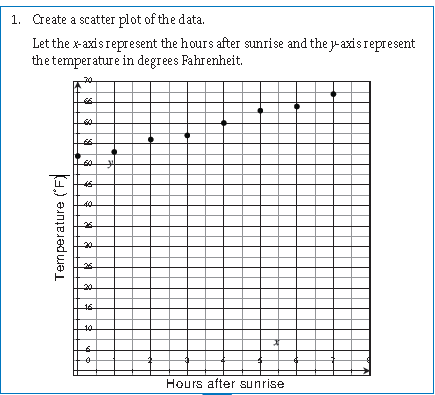
hours after sunrise and the temperature in degrees Fahrenheit are in the table below.

|  |  |
| --- | --- |
| Hours after sunrise | Temperature in 0F |
| 0 | 52 |
| 1 | 53 |
| 2 | 56 |
| 3 | 57 |
| 4 | 60 |
| 5 | 63 |
| 6 | 64 |
| 7 | 67 |

Can the temperature 0–7 hours after sunrise be represented by a linear function? If

yes, find the equation of the function.

Best fit line:



*(If linear, complete)*

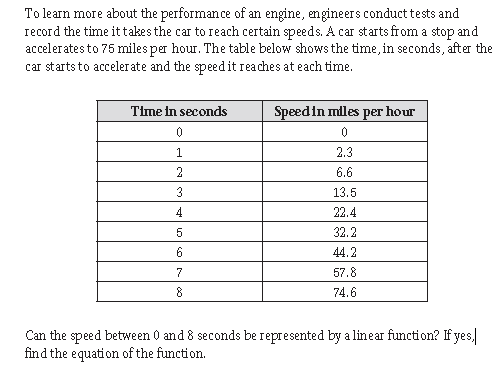
Slope value: \_\_\_\_ Slope units: \_\_\_\_\_\_\_\_\_\_\_\_\_\_per\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Slope Interpretation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

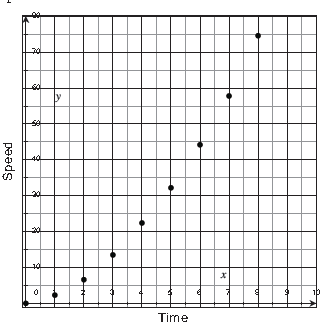
Y-intercept value: \_\_\_\_ Y-intercept unit: \_\_\_\_\_\_\_\_\_\_\_\_\_

Y-intercept Interpretation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Example 2:**



Best fit line:



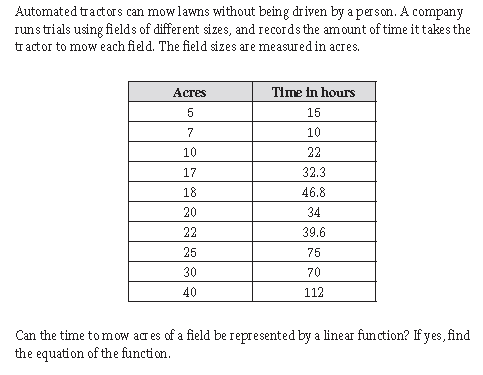
*(If linear, complete)*

Slope value: \_\_\_\_ Slope units: \_\_\_\_\_\_\_\_\_\_\_\_\_\_per\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

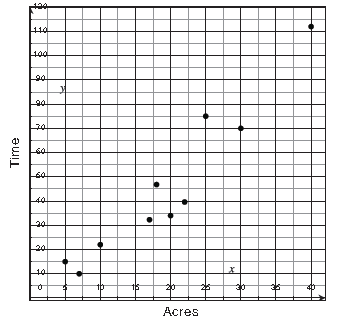
Slope Interpretation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Y-intercept value: \_\_\_\_ Y-intercept unit: \_\_\_\_\_\_\_\_\_\_\_\_\_

Y-intercept Interpretation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Example 3**

Best fit line:



*(If linear, complete)*

Slope value: \_\_\_\_ Slope units: \_\_\_\_\_\_\_\_\_\_\_\_\_\_per\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Slope Interpretation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Y-intercept value: \_\_\_\_ Y-intercept unit: \_\_\_\_\_\_\_\_\_\_\_\_\_

Y-intercept Interpretation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_