Creating Linear Plots for

Recursive Sequences

Aroldo attended the State Fair with his friends in August. The entry fee was $8 and each ride he went on cost an additional $2. Use the coordinate plane below to show the total Aroldo may have spent depending on the number of rides he went on.

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| Cost ($) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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Number of Rides

This situation can also be shown using a table. Take each ordered pair on the graph and put it in the corresponding spot on the table.

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| Number of Rides |  |  |  |  |  |  |  |  |  |  |
| Cost ($) |  |  |  |  |  |  |  |  |  |  |

The cost (y-coordinate) based on the number of rides can be described as a recursive routine:

Start Value:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Operation:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_