Assignment 4

The problem of the building is to determine the expression for the building's floor level. Assume that the floor level in the building is given by:

$$ y = f(x) $$

where:

- $$ y $$ is the floor level
- $$ x $$ is the horizontal distance from the point of observation.

The expression for the building's floor level is given by:

$$ f(x) = ax^2 + bx + c $$

where:

- $$ a $$, $$ b $$, and $$ c $$ are constants.

Using the data (in Problem 1), write the expression for the building's floor level at each floor.

- Floor 1: $$ y = f_1(x) $$
- Floor 2: $$ y = f_2(x) $$
- Floor 3: $$ y = f_3(x) $$

In Problem 2, identify the graph of the building's floor level. Assume that the building's floor level is given by:

$$ y = f(x) $$

where:

- $$ y $$ is the floor level
- $$ x $$ is the horizontal distance from the point of observation.

The expression for the building's floor level is given by:

$$ f(x) = ax^2 + bx + c $$

where:

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Using the data (in Problem 1), write the expression for the building's floor level at each floor.

- Floor 1: $$ y = f_1(x) $$
- Floor 2: $$ y = f_2(x) $$
- Floor 3: $$ y = f_3(x) $$

In Problem 3, identify the graph of the building's floor level. Assume that the building's floor level is given by:

$$ y = f(x) $$

where:

- $$ y $$ is the floor level
- $$ x $$ is the horizontal distance from the point of observation.

The expression for the building's floor level is given by:

$$ f(x) = ax^2 + bx + c $$

where:

- $$ a $$, $$ b $$, and $$ c $$ are constants.

Using the data (in Problem 1), write the expression for the building's floor level at each floor.

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In Problem 4, identify the graph of the building's floor level. Assume that the building's floor level is given by:

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