9. [8 points] Let \( h(x) = \frac{4}{3}g(3(x + 5)) - 9 \). Write out in words a sequence of transformations that, when applied to the graph of \( h(x) \) result in the graph of \( g(x) \).

**Note:** You are transforming the graph of \( h(x) \) to the graph of \( g(x) \) here, and **not** the other way around.

In the first blank on each line, write one of the transformations from the list at the end of the problem. In the second blank, write a number that represents the appropriate shift or scaling factor. If you don’t need to use all the lines below to write out the transformation, leave any remaining lines blank.

First, __________________ by ________.

Then, __________________ by ________.

Then, __________________ by ________.

Then, __________________ by ________.

List of transformations to choose from for the first blank on each line above:

- **Shift to the left**
- **Shift up**
- **Stretch vertically**
- **Stretch horizontally**
- **Shift to the right**
- **Shift down**
- **Compress vertically**
- **Compress horizontally**