GeoGebra Function Tranformations   Name: Block: Seat:

1. Select the **Slider** button make 3 sliders named a, h, and k by clicking on three locations in the Graphics view (out of the way like the bottom right corner)

2. Type several or all of the **Arrow Icon** on left (Move Tool) and type the following functions in the **Input** box

   (a) `f1:a*(x-h)+k`

   (b) `f2:a*(x-h)^2+k`

   (c) `f3:a*(x-h)^(1 / 2)+k`

   (d) `f4:a*(x-h)^3+k`

   (e) `f5:a*(x-h)^(1/3)+k`

   (f) `f6:a*floor(x-h)+k`

   (g) `f7:a*abs(x-h)+k`

   On the iPad you don't need the $*$ to multiply, and instead of the ˆ you can use the a^x button.

3. You can turn the graph on and off with the dots, and manipulate the a,h and k sliders to see the transformations.

4. You make wish use the **Move Graphics View** tool on the far right in order to move around the graph or pinch/grow to change the scale, but remember to go back the **Arrow** on the left to be able to work the sliders again.

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