Name:

Date:

School:

Facilitator:

**8.01 Exploring the Cube Root Function**

Using the GeoGebra Activity [**Translating the Cube Root Function**](http://www.geogebratube.org/student/m124582), answer each question completely. Once completed, submit this activity to the **8.01 Explore Dropbox**.

|  |  |
| --- | --- |
| 1. | What does the value of *h* control? |
|  |  |
|  |  |
| 2. | What does the value of *k* control? |
|  |  |
|  |  |
| 3. | What does the value of *a* control? |
|  |  |
|  |  |
| 4. | What does the value of *b* control? |
|  |  |
|  |  |
| 5. | What happens when *a* = 0? Does the value of *b* affect the graph when *a* = 0? |
|  |  |
|  |  |
| 6. | What happens when *b* = 0? Does the value of *a* affect the graph when *b* = 0? |
|  |  |
|  |  |
| 7. | If *h* = 3 and *k* = 1, what are the coordinates of the blue point? (Set *a* and *b* to 1) |
|  | (,) |
|  |  |
| 8. | If *h* = -2 and *k* = -4, what are the coordinates of the blue point? (Set *a* and *b* to 1) |
|  | (,) |
|  |  |