Algebra II – Family of Functions Homework Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| Function | A  Without looking at the calculator, sketch what you predict the shape of the graph will be. | B  What type of function do you predict this is? | C  Using your graphing calculator, graph the function and match the shape of the graph to the function toolbox. List the type of function. |
|  | http://4.bp.blogspot.com/_9VNaIzjiOr0/TO9qRj7FW5I/AAAAAAAAAaA/0qR1Csvc7FI/s1600/X-Y-Axis-Graph.jpg |  |  |
|  | http://4.bp.blogspot.com/_9VNaIzjiOr0/TO9qRj7FW5I/AAAAAAAAAaA/0qR1Csvc7FI/s1600/X-Y-Axis-Graph.jpg |  |  |
|  | http://4.bp.blogspot.com/_9VNaIzjiOr0/TO9qRj7FW5I/AAAAAAAAAaA/0qR1Csvc7FI/s1600/X-Y-Axis-Graph.jpg |  |  |
|  | http://4.bp.blogspot.com/_9VNaIzjiOr0/TO9qRj7FW5I/AAAAAAAAAaA/0qR1Csvc7FI/s1600/X-Y-Axis-Graph.jpg |  |  |

Choose two functions on the toolbox. On the back, write a scenario that would be represented with this type of function.