Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_

2.7 Absolute Value Functions and Graphs

For each of the following absolute value functions, graph the parent function, y= |x|, and graph the transformation of the function given. Then, complete the table of values to check if your graph is correct.

|  |  |
| --- | --- |
| X | $$y=\left|x+1\right|-3$$ |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

1. $y=\left|x+1\right|-3$



|  |  |
| --- | --- |
| X | $$y=-\left|x\right|+2$$ |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

1. $y=-\left|x\right|+2$



|  |  |
| --- | --- |
| X | $$y=2\left|x-3\right|-2$$ |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

1. $y=2\left|x-3\right|-2$