NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ALGEBRA 1

DATE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ HOMEWORK

 Consider the function given by the formula f(x) $=\left\{\begin{array}{c}x+1, \&x> -1\\-x-1, \& x \leq -1\end{array}\right.$

1. Fill out the table below for the inputs given. Keep in mind which formula you are using.

|  |  |  |
| --- | --- | --- |
| x | Calculations | y |
| -3 |  |  |
| -2 |  |  |
| -1 |  |  |
| 0 |  |  |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |

1. Graph the function below.



Consider the function given by the formula f(x) $=\left\{\begin{array}{c}-2x+8, \&x \leq 4\\\frac{1}{2}x-2, \& x>4\end{array}\right.$

1. Fill out the table below for the inputs given. Keep in mind which formula you are using.

|  |  |  |
| --- | --- | --- |
| x | Calculations | y |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

1. Graph the function below.

