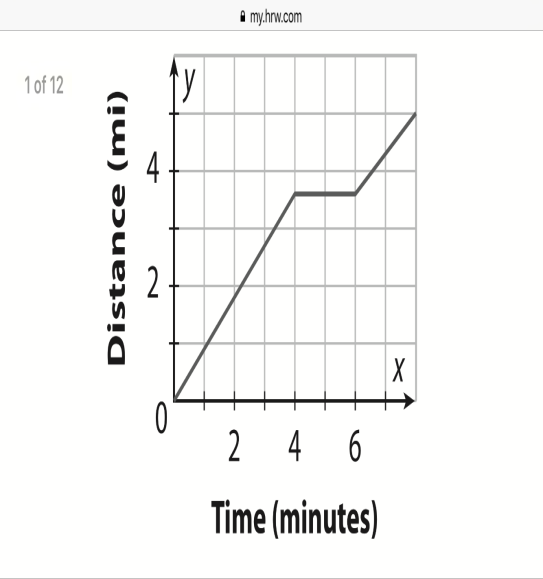
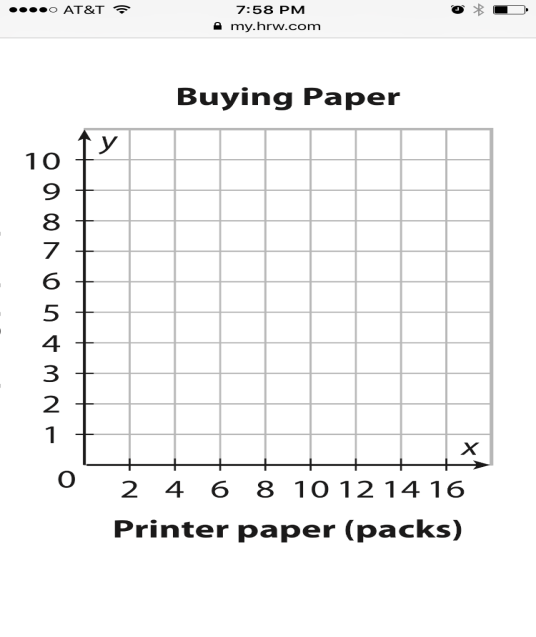
**Chapter 13: Piecewise-Defined Functions**

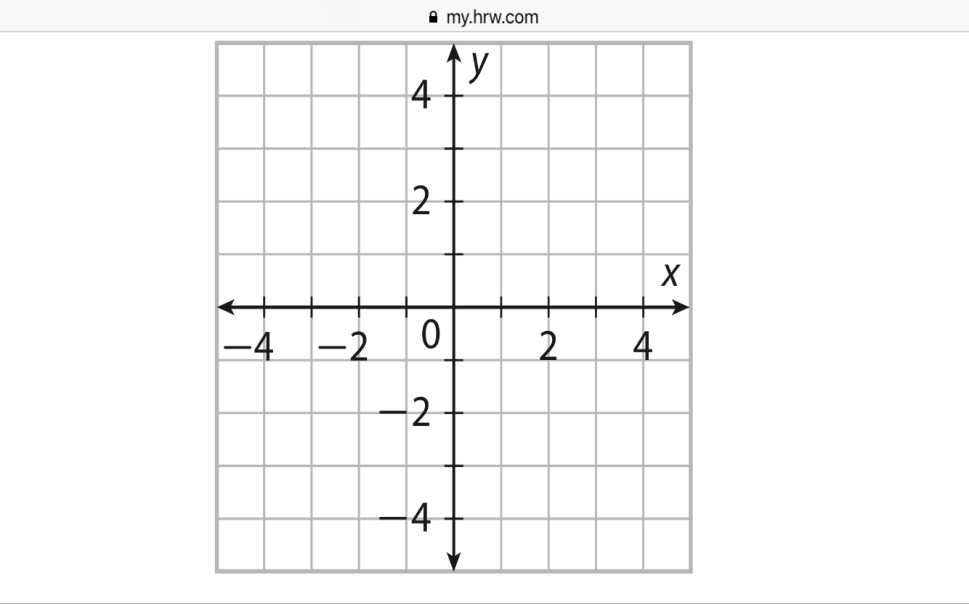
**Lesson 13.1 Understanding Piecewise-Defined Functions**

****A **piecewise function** has different rules for different parts of its domain.

**Example 1:**

**F(x) =**

**Step 1: Make tables and pick values which Step 2: Graph your values.**

**fulfill the mathematical statements.**

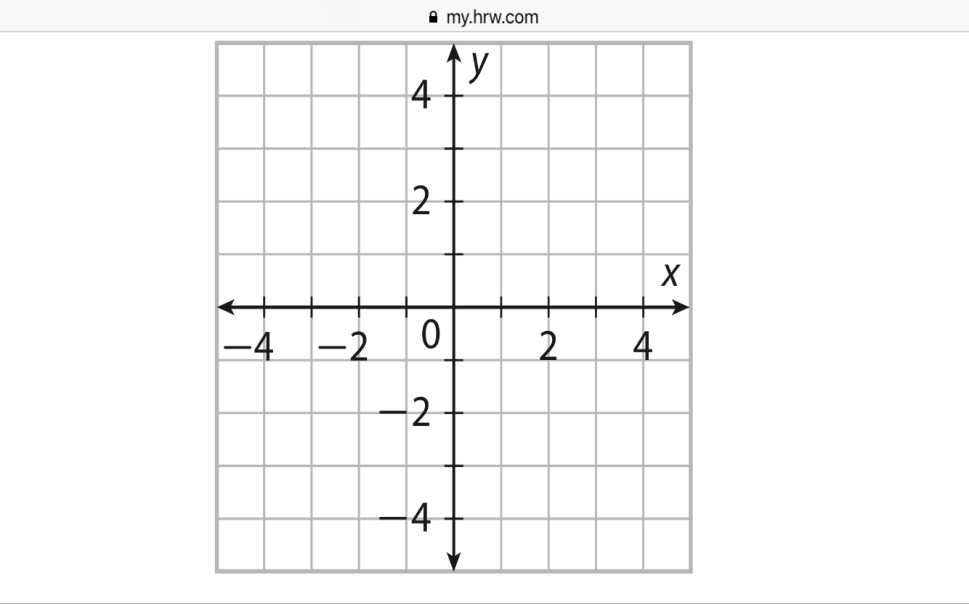
|  |  |
| --- | --- |
| y = (-x) | |
|  |  |
|  |  |
|  |  |

|  |  |
| --- | --- |
| y = x + 1 | |
|  |  |
|  |  |
|  |  |

**Example 2:**

**This style of bracket means the “Greatest Common Integer”**

**Step 1: Make tables and pick values which Step 2: Graph your values.**

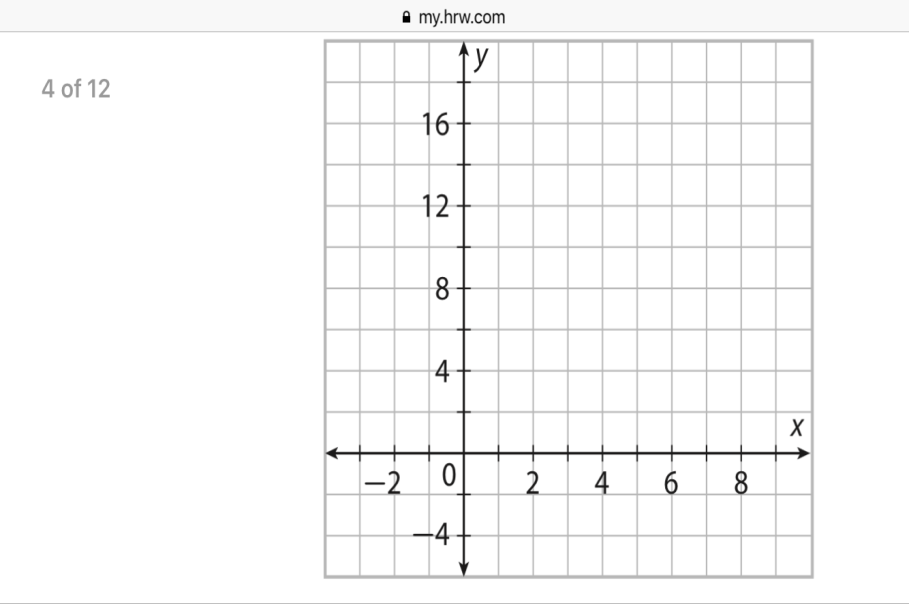
**fulfill the mathematical statement.**

|  |  |
| --- | --- |
|  | |
| **-3** |  |
| **-2.5** |  |
| **-1.4** |  |
| **0** |  |
| **.5** |  |
| **1.5** |  |
| **2** |  |

**Example 3:**

**f(x) =**

**Step 1: Make tables and pick values which Step 2: Graph your values.**

**Fulfill the mathematical statement.**