

Section 2.2

TERMINOLOGY

2.2

For each of the following terms, provide 1) a definition in your own words, 2) the formal definition (as provided by your text or instructor), and 3) an example of the term using a drawing or problem.

Additive Inverse

Your definition	
Formal definition	
Example	

Sum

Your definition	
Formal definition	
Example	

READING AND SELF-DISCOVERY QUESTIONS

2.2

- Describe how to add integers that have the same sign.

Add the absolute value of the numbers (which will appear in an counting addition table) and place the sign of those numbers.

- Describe how to add integers that have different signs.

Take the difference of the absolute values of the numbers and use the sign of the number with the greatest absolute value.

DEMONSTRATE YOUR UNDERSTANDING

2.2

1. For each statement below, circle whether it is true Sometimes, Always, or Never :

- a) (positive) – (positive) = (positive) **SOMETIMES** ALWAYS NEVER
- b) (negative) – (positive) = (negative) SOMETIMES **ALWAYS** NEVER
- c) (positive) – (negative) = (negative) **SOMETIMES** ALWAYS NEVER
- d) (negative) – (negative) = (negative) **SOMETIMES** ALWAYS NEVER

IDENTIFY AND CORRECT THE ERROR

2.2

In the second column, identify the error(s) you find in the following worked solution. Describe the error made in the second column. Solve the problem correctly in the third column.

Problem	Describe Error	Correct Process
Add $-41 + (-13)$	<p>The addition of a negative is the subtraction of a positive.</p>	<p>$-41 + (-13)$ $-41 - 13$ -54</p>
<p>Worked Solution <i>(What is wrong here?)</i></p>		
<p>$-41 + (-13)$ $-41 + 13$ -28</p>		