Lesson 11: Absolute Value—Magnitude and Distance

Problem Set

For each of the following two quantities in Problems 1–4, which has the greater magnitude? (Use absolute value to defend your answers.)

1. dollars and dollars
2. feet and feet
3. pounds and pounds
4. degrees and degrees

For Problems 5–7, answer true or false. If false, explain why.

1. The absolute value of a negative number will always be a positive number.
2. The absolute value of any number will always be a positive number.
3. Positive numbers will always have a higher absolute value than negative numbers.
4. Write a word problem whose solution is .
5. Write a word problem whose solution is .
6. Look at the bank account transactions listed below, and determine which has the greatest impact on the account balance. Explain.
   * 1. A withdrawal of
     2. A deposit of
     3. A withdrawal of