

Concept: Solving Absolute Value Equations

Name: _____

COMPUTER COMPONENT

Instructions: Select the computer program *Understanding Equations* (Neufeld)
Follow the instructions to the Main Menu.
Select *Solving Absolute Value Equations* from the Main Menu.



Work through all sections of the following topics **in order**:

- *Absolute Value ... What is it?*
- *Absolute Value Equations in 1 Variable*
- *Absolute Value Inequalities in 1 Variable*
- *Absolute Value Equations in 2 Variables*
- *Practice Questions*



As you work through the computer exercises, make your own notes in your notebook. **Be sure to copy out each example given.**

When you reach the end of the section *Practice Questions* on the computer, move on to the **OFF COMPUTER EXERCISES** below.

OFF COMPUTER EXERCISES

1. The absolute value of a number is 5. What was the original number?

2. Graph $|x| \leq 4$.



3. Solve.

(a) $|2x - 6| = 10$

(b) $|x + 4| = 1$

3. (continued)

(c) $|x - 2| = 4$

(d) $|3x - 1| = 5$

4. Solve.

(a) $|3 - x| \leq 8$

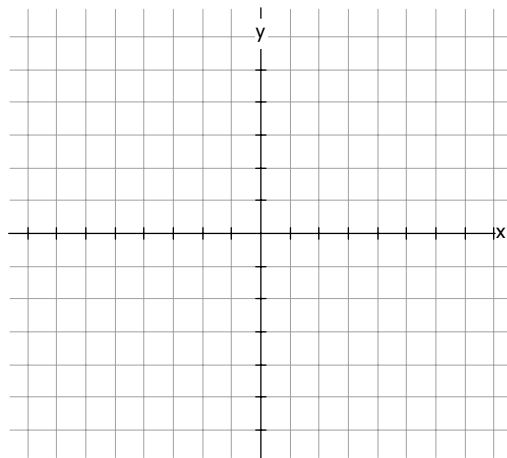
(b) $|x - 2| < 2$

(c) $|5x + 2| > 3$

(d) $|5x - 2| \leq 3x + 1$

5. Graph.

(a) $y = |x + 2|$



(b) $y = 3|x| - 1$

