| UBM06BLM/AK_61378 | 2/5/03 6:10 PM Page 175 (Black plate)  | DIGITA          |
|-------------------|--|-----------------|
|                   |  |                 |
| NAME              | E DATE   | 10000           |
| Mod               | <b>ule 6</b> Solving Absolute Value Equations and Inequalities   | guided          |
| Less              | son 1 Solving Basic Absolute Value<br>Equations  | guided<br>notes |
| Le                | esson Objectives   | Accessed.       |
|                   | <ul> <li>Understand the geometric and algebraic definitions of absolute value.</li> <li>Solve absolute value equations of the form  ax + b  = k by rewriting them as compound equations.</li> <li>Identify and solve one solution and no solution absolute value equations.</li> </ul> |                 |
| The a             | ubsolute value of a number is the distance from to   | 0               |
| that r            | number on a number line.   |                 |
| The a             | bsolute value of any nonzero number is   |                 |
| The a             | ubsolute value of 0 is   |                 |
|                   | $x$ , if $x \ge 0$   |                 |
| x  =              | -x, if $x < 0$   |                 |
| If $ x  =$        | = 0, then <i>x</i>   |                 |
|                   | Solve:   |                 |
|                   | N  = 7   |                 |
|                   | Solution Set:  | _               |
| 2                 | Solve:   |                 |
|                   | 4y  = 12   |                 |
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| -                 | 6 Lesson 1 <b>175</b>  | Guided Notes    |

 $-\phi$ 

## DIGITAL

| 3 | Solve:                         |
|---|--------------------------------|
|   | $\left \frac{z}{2}\right  = 1$ |
|   |                                |
|   | Solution Set:                  |
| 4 | Solve:                         |
|   | 2I - 7  = 1                    |
|   |                                |
|   | Solution Set:                  |
| 5 | Solve:                         |
|   | 7M - 1  = -4                   |
|   |                                |
|   | Solution Set:                  |
| 6 | Solve:                         |
|   | x + 5  = 0                     |
|   |                                |
|   | Solution Set:                  |
|   |                                |

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Module 6 Lesson 1

Guided Notes