

**New Jersey City University**  
**Intermediate Algebra**  
**Peer Led Team Learning Workshop 2B**  
**Absolute Value Inequalities**

Section 2.8

1. Solve each absolute value inequality for  $x$  and graph the solution.

b.  $|x - 5| \leq 2$

b.  $|x - 5| > 2$

c.  $|2x - 5| \leq 7$

d.  $|2 - 3x| > 8$

Section 2.8

2. a. In a certain company the measured thickness  $x$  of a helicopter blade must differ from 17 mm by no more than 0.1 mm. Describe all the possible values for  $x$ .
- b. Write an absolute value inequality that describes the situation in part a, and that, if solved for  $x$ , would give the correct answer.