**3.7 Absolute Value Equations and Inequalities**

Objective: To solve equations involving absolute value

To solve inequalities involving absolute value.

STARTER:

Solve and Graph; then write solution in Interval Notation:

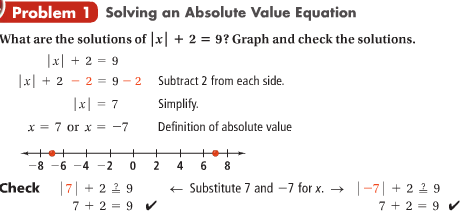
 

Recall: l 2 l = 2 and l -2 l = 2

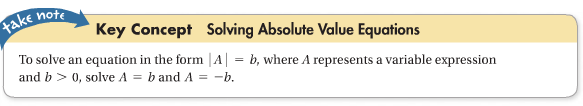
Key concept:

To solve both absolute value equations and inequalities you must first \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Then write an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of linear equations or inequalities.

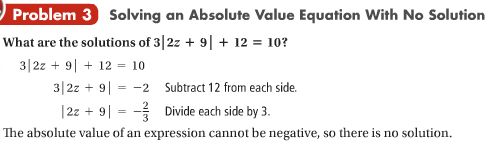




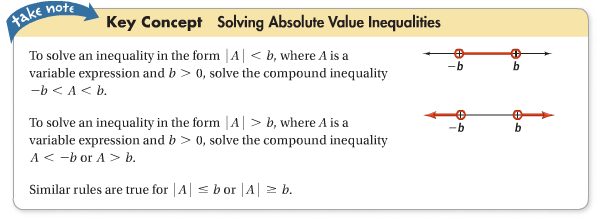


You try:

1. l 2x – 5 l = 13 b. 3 l x – 2 l = 6









Now we will look at :



You try: