

Advanced Precalculus
Absolute Value Equations

Name: _____

Solve the following equations algebraically. Check your solutions. Show your work!

1.) $|x - 1| + |x - 5| = 20$

2.) $x + 8 - |2x + 7| = |x + 3|$

3.) $|2x + 1| + |x + 2| = |5x + 8|$

4.) $||x + 7| + |7x + 1|| = x + 15$

5.) $||2x - 1| + |3x - 4| + 5| + |2x - 8| = 25 - 3x$