

Worksheet 3-1  
Advanced Algebra 2

Name:

Show the breakpoints and equations (in slope-intercept form) for each region. Sketch the graph-labeling the x and y intercepts, and the vertices.

1.  $y = |2x + 1|$
2.  $y = 3 - |2 - x|$
3.  $y > |4 - x|$
4.  $y \leq |x - 9|$
5.  $y = |x| - |x - 3|$
6.  $y = |x - 2| + |3x + 1|$
7.  $y = |x| + |3 - x| + |x + 1|$