

Assignment #7 Absolute Value**Due June 5/20**

1. Determine the value of each absolute value expression.

a) $| -4 |$

b) $| 12 |$

c) $| 9 - 16 |$

d) $| 4 | - | -8 |$

e) $3| -6 - (-12) |$

f) $| -8.5 | - | 12.5 |$

g) $4| 1/2 | + 4| -3/4 |$

h) $| -5 + 14 | + | 7 - (-10) | - | 9 - 18 |$

2. Sketch each absolute value function and write each function as a piecewise function.

Make sure the x-intercepts are labelled clearly, the vertex can be estimated(not labelled) for the quadratics.

a) $y = | -x - 4 |$

b) $y = | 2x - 5 |$

c) $y = | x^2 + 2x - 3 |$

d) $y = | -x^2 + 4x + 12 |$