Attributes of Absolute Value Functions

Essential Question:

A ______________ _____________ is the most basic function in a family.
An _________________ _______________ function is where
f(x) = |x|
The absolute value of a number is its distance from zero.

| x  | f(x) = |x| |
|----|------|
| -2 | -2   |
| -1 | -1   |
|  0 |  0   |
|  1 |  1   |
|  2 |  2   |

For an absolute value function, you must be able to find the following:
Domain & Range
Intercepts -
Symmetries -
Maximum/Minimum –

Example 1: Find the attributes of the function f(x) = |x + 1|

D:
R:

x-int: 0 y-int: 0

Symmetry:
Max/Min:
Example 2: Find the attributes of $f(x) = -3|x| + 2$

D:

R:

x-int: y-int:

Symmetry:

Max/Min:

Summary: