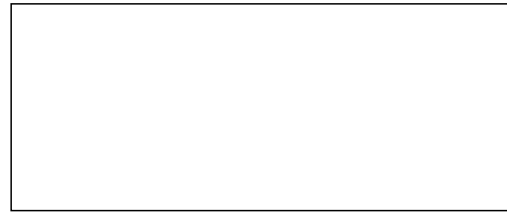


## 7.2 Absolute Value Functions

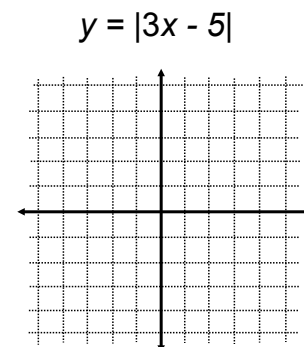
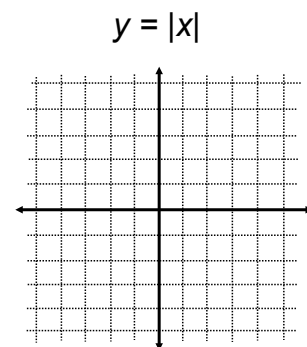
\* The function  $y = |f(x)|$  can be defined as the following piecewise function:



Ex.  $y = |3x - 5|$

Ex.  $y = |x^2 - 2x - 15|$

\* Graphically, it looks like the graph of an absolute function "bounces" off the x-axis instead of becoming negative.



\* As with any function, we can obtain the **x-intercept by replacing y with 0** and the

ex.  $y = |3x - 5|$

**y-intercept by replacing x with 0**

