**Absolute Value Functions**

Sketch each pair of functions on the same graph (use different colours if possible). You may want to make table of values to help you:

1) $y=x$
 $y= \left|x\right|$

(the “mother functions”)

2) $y=2x-6$
 $y= \left|2x-6\right|$



3) $y=2\left(x+1\right)^{2}-2$

 $y=\left|2\left(x+1\right)^{2}-2\right|$

4) $y= -\left(x-3\right)^{2}-2$

 $y= \left|-\left(x-3\right)^{2}-2\right|$