

## Piece-wise Graph Practice

$$(1) f(x) = \begin{cases} |x| & \text{if } x \leq 2 \\ x^2 & \text{if } x > 2 \end{cases}$$

$$(2) f(x) = \begin{cases} |x| & \text{if } x \leq 0 \\ \sqrt{x} & \text{if } x \geq 0 \end{cases}$$

$$(3) f(x) = \begin{cases} x & \text{if } x \leq 0 \\ \sqrt{x} & \text{if } x > 0 \end{cases}$$

$$(4) f(x) = \begin{cases} x & \text{if } x \leq 0 \\ \text{int } x & \text{if } x \geq 0 \end{cases}$$

$$(5) f(x) = \begin{cases} x & \text{if } x \leq 0 \\ x^2 & \text{if } x \geq 0 \end{cases}$$

Graph each by  
hand on graph paper

Plot actual points  
(you can use mental math  
to get them.)