## Questions

Note: In Section 2.3 we will learn a significantly better way to sketch graphs than using a table of ordered pairs, which involves graphical transformations. Using a table of ordered pairs you can miss important features of the function.

1. Make a table listing some ordered pairs for the function $f(x)=\left\{\begin{array}{l}\sqrt{x+2} \text { if }-2 \leq x \leq 2 \\ 4-x \text { if } x>2\end{array}\right.$

Then, sketch the graph and state the domain and range, and identify any intervals in which $f$ is increasing, decreasing, or constant.
2. Make a table listing some ordered pairs for the function $f(x)=\lfloor x\rfloor+2$ for $0 \leq x<4$.
(Note $\lfloor x\rfloor$ is the greatest integer function)
Then, sketch the graph and state the domain and range, and identify any intervals in which $f$ is increasing, decreasing, or constant.
3. Determine the algebraic formula for the following graph of a piecewise function:


