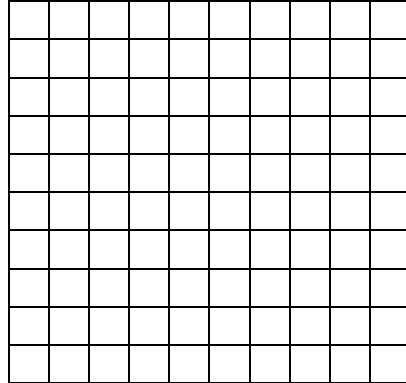
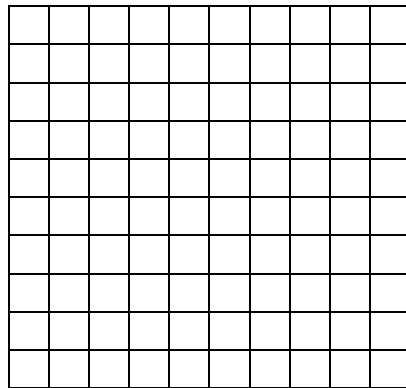


Graph the piecewise functions.

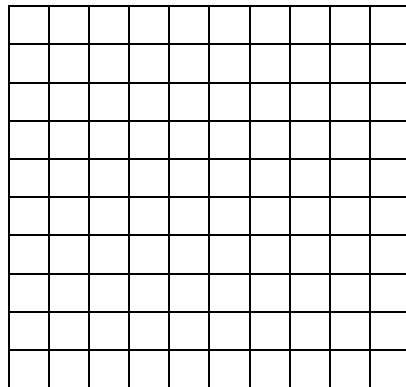
$$1) f(x) = \begin{cases} 1 & \text{if } x \leq 1 \\ x+1 & \text{if } x > 1 \end{cases}$$



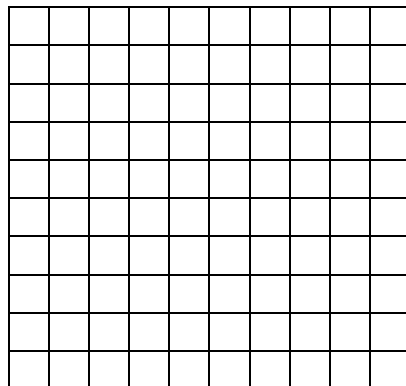
$$2) f(x) = \begin{cases} 1-x & \text{if } x < -2 \\ 5 & \text{if } x \geq -2 \end{cases}$$



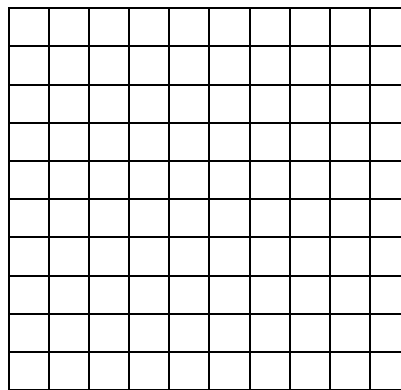
$$3) f(x) = \begin{cases} -1 & \text{if } x < -1 \\ x & \text{if } -1 \leq x \leq 1 \\ 1 & \text{if } x > 1 \end{cases}$$



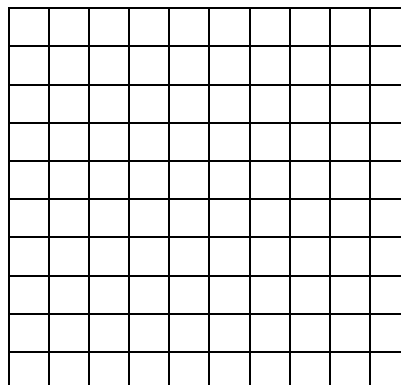
$$4) f(x) = \begin{cases} -2 & \text{if } -4 < x \leq -2 \\ -1 & \text{if } -2 < x \leq 0 \\ 0 & \text{if } 0 < x \leq 2 \\ 1 & \text{if } 2 < x \leq 4 \end{cases}$$



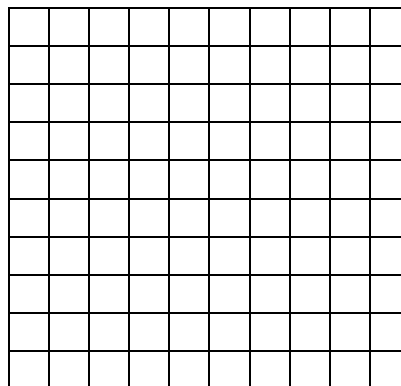
$$5) f(x) = \begin{cases} 2 & \text{if } x \leq -1 \\ x^2 & \text{if } x > -1 \end{cases}$$



$$6) f(x) = \begin{cases} 1 - x^2 & \text{if } x \leq 2 \\ x & \text{if } x > 2 \end{cases}$$



$$7) f(x) = \begin{cases} x + 2 & \text{if } x \leq -1 \\ x^2 & \text{if } x > -1 \end{cases}$$



$$8) f(x) = \begin{cases} 4 & \text{if } x < -2 \\ x^2 & \text{if } -2 \leq x \leq 2 \\ -x + 6 & \text{if } x > 2 \end{cases}$$

