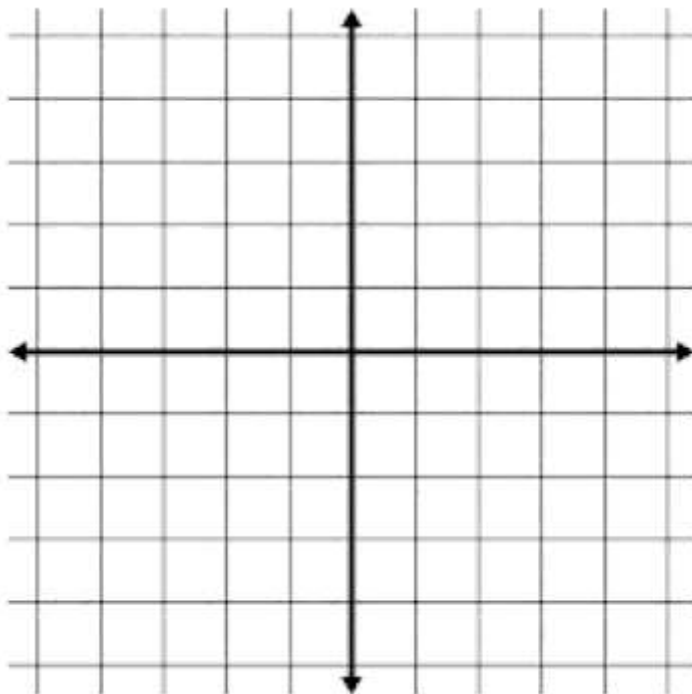


## 6.08 – Graphing Piecewise Functions

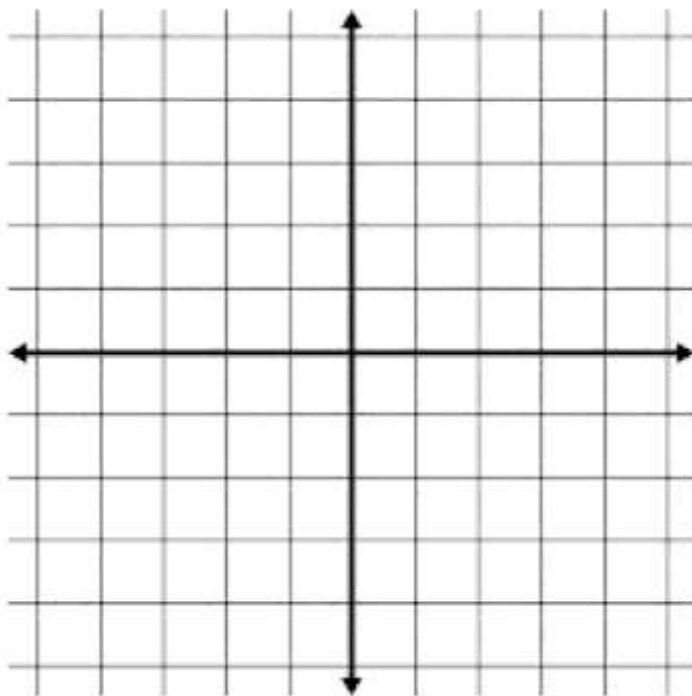
Name \_\_\_\_\_

Graph the following piecewise functions:

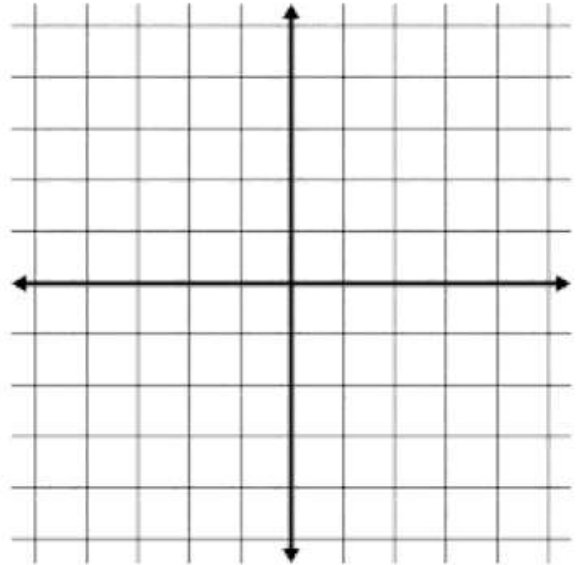
$$1. f(x) = \begin{cases} (x+2)^2, & x < -1 \\ 2, & -1 \leq x < 2 \\ 1, & x = 2 \\ -(x-2)^2, & x > 2 \end{cases}$$



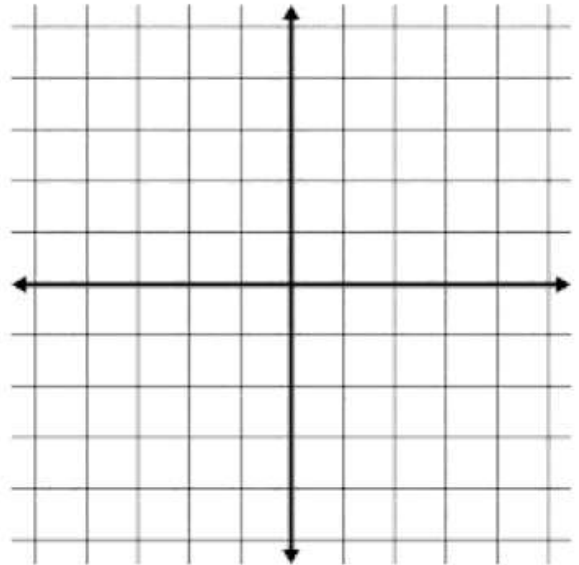
$$2. g(x) = \begin{cases} x+2, & -2 \leq x < -1 \\ x+1, & -1 \leq x < 0 \\ x, & 0 \leq x < 1 \\ x-1, & 1 \leq x < 2 \end{cases}$$



$$3. \quad h(x) = \begin{cases} (x+1)^3 - 1, & x \leq 0 \\ 1, & 0 < x < 2 \\ 2, & x = 2 \\ (x-2)^2, & x > 2 \end{cases}$$



$$4. \quad p(x) = \begin{cases} |x+2|, & x < 0 \\ x^2, & 0 \leq x \leq 2 \\ (x-4)^2, & 2 < x < 4 \end{cases}$$



$$5. \quad t(x) = \begin{cases} \cos\pi(x), & x \leq -1 \\ -|x|, & -1 < x < 1 \\ \cos\pi(x), & 1 \leq x \end{cases}$$

