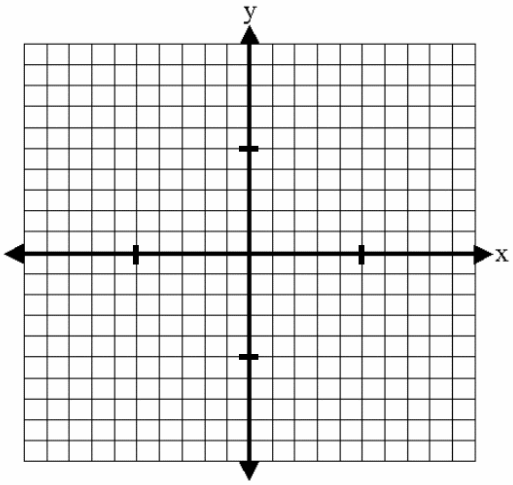
Pre-Calculus w/Trig Peto
Piecewise Functions Day 10

Name _____
Date _____ Period _____

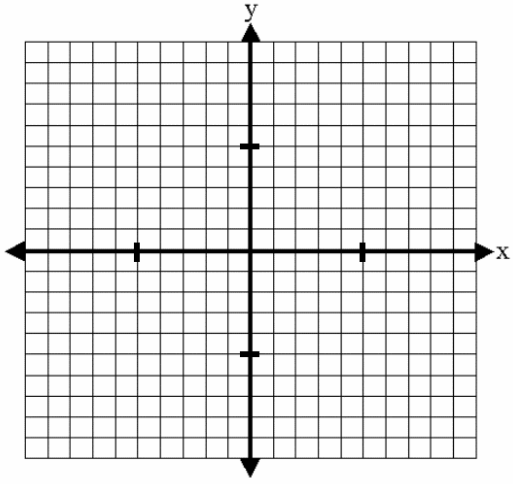
*OBJECTIVE: You will be able to write and graph piecewise functions.*

**Graph each function.**

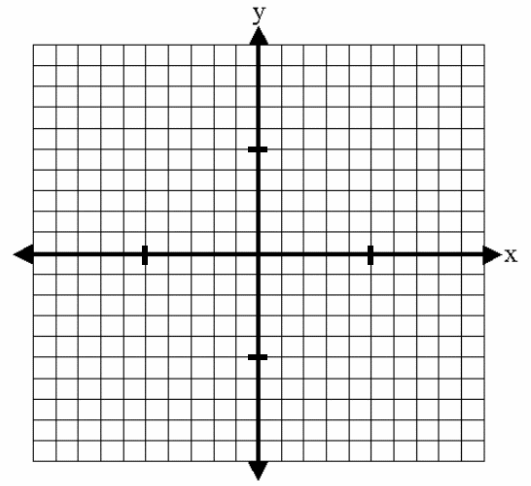
1. $f(x)=\begin{cases} x+6, x\in[-7,-3) \\ 2x, x\in[-3,5] \end{cases}$



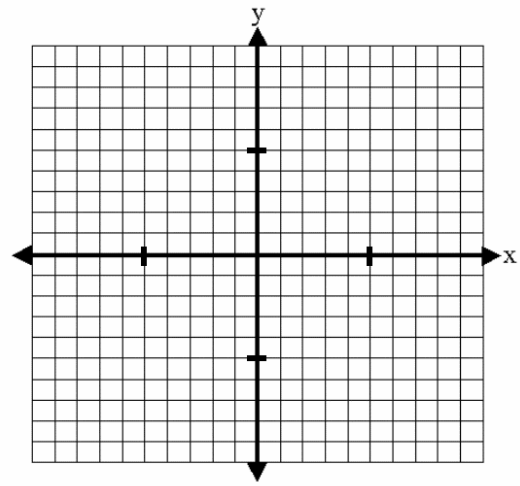

2. $f(x)=\begin{cases} 2|x+6|-4, x\in[-10,-4) \\ x+4, x\in(-4,-2] \\ -x-2, x\in(-2,8) \end{cases}$




3. $f(x)=\begin{cases} x-2, & x\le -2 \\ x^2-3, & -2<x<3 \\ 2, & x\ge 6 \end{cases}$

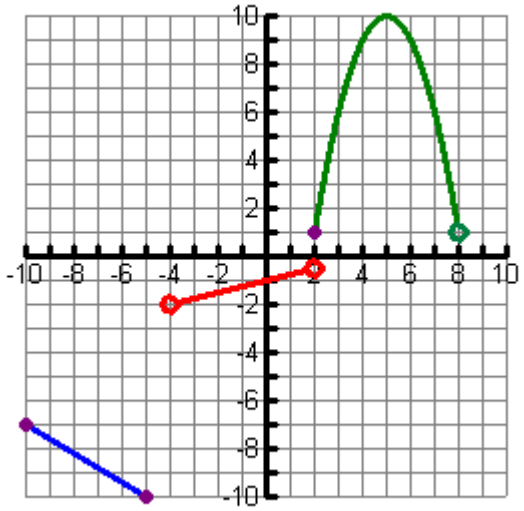



4. $f(x)=\begin{cases} x^2+2, x\in(-\infty,0] \\ -2x+7, x\in(5,\infty) \end{cases}$

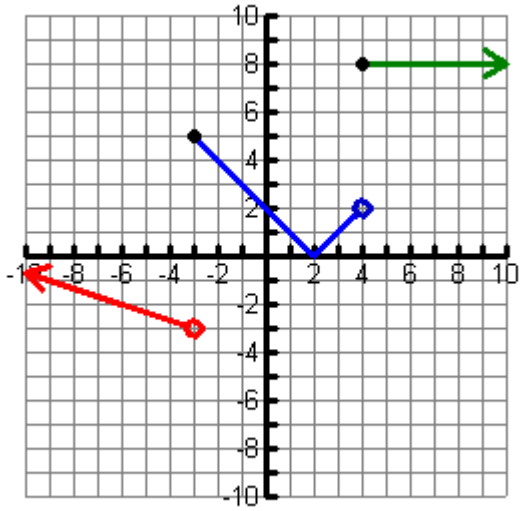


**Write the piecewise function for each graph. Be sure to include the domain.**

5. $f(x) = \begin{cases} \\ \\ \\ \end{cases}$




6. $f(x) = \begin{cases} \\ \\ \\ \end{cases}$



7. $f(x) = \begin{cases} \\ \\ \\ \end{cases}$