Piecewise Function Compare & Contrast
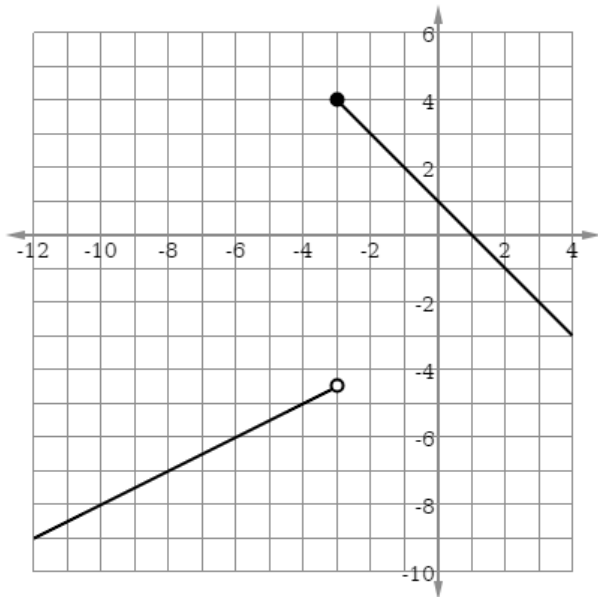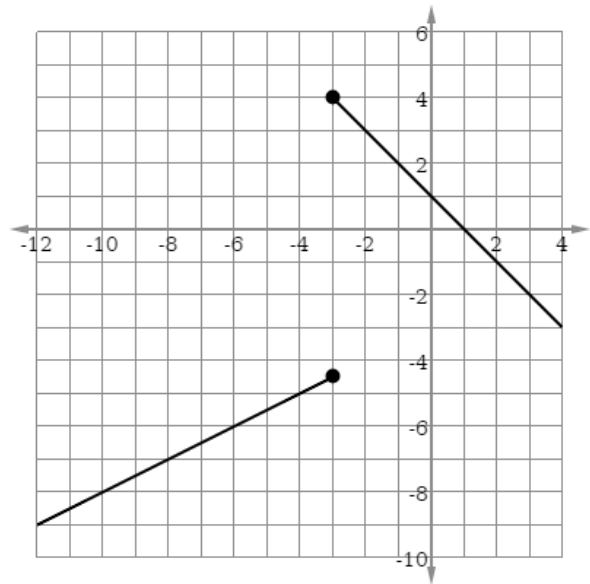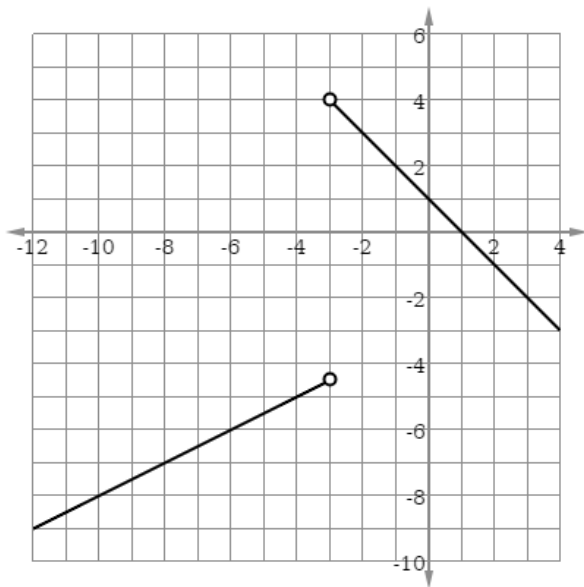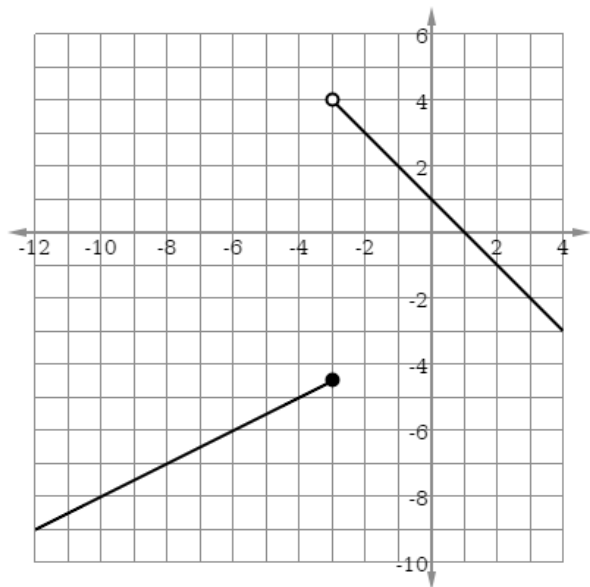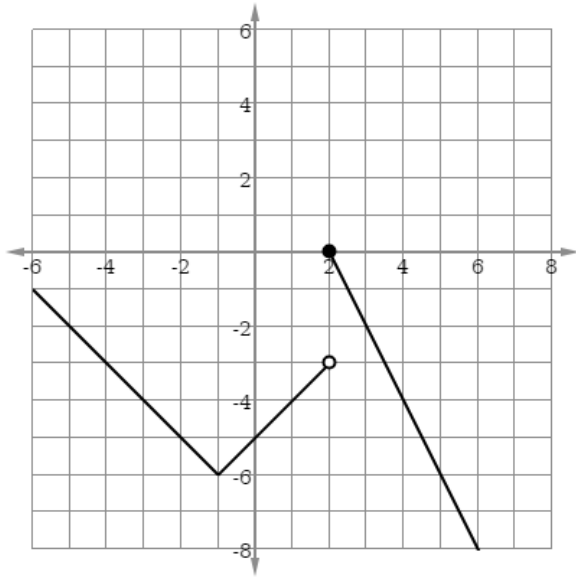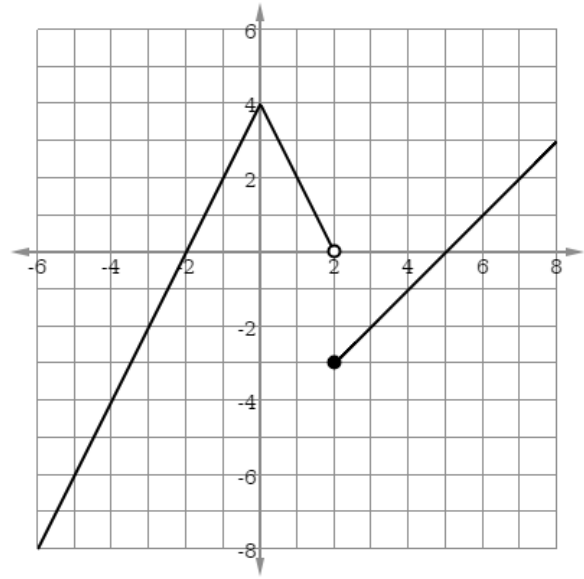
Graph A

Graph B

Graph C

Graph D

1. Compare and contrast the four piecewise function graphs.
2. Which of the graphs represent functions? Explain how you know it is or isn't.
3. Write the domain restrictions for each of the functions.
4. Write the rule for each of the functions represented.

Graph E	Graph F

Eleanor says that the function represented in Graph E has the rule

$$h(x) = \begin{cases} |x+1| - 6 & x \geq 2 \\ -2|x| + 4 & x < 2 \end{cases}$$

Fred tells Eleanor respectfully that her function is actually for Graph F, not Graph E.

1. Who is correct? How do you know?
2. Write the function for the other graph.