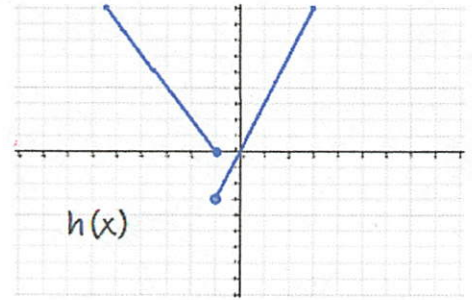
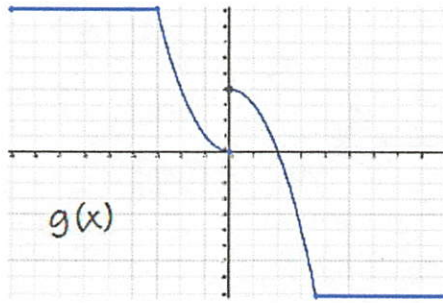
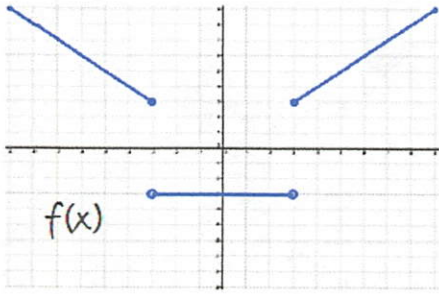


I can graph a piecewise function:

I can evaluate a piecewise function:



Use the graphs above to evaluate the function for the given value of x.

1.  $f(0) = -3$

2.  $g(-4) = 9$

3.  $h(2) = 6$

4.  $g(1) = 3$

5.  $h(-1) = 0$

6.  $f(5) = 5$

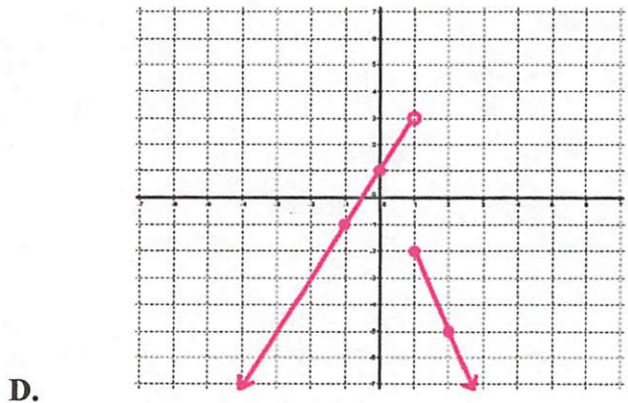
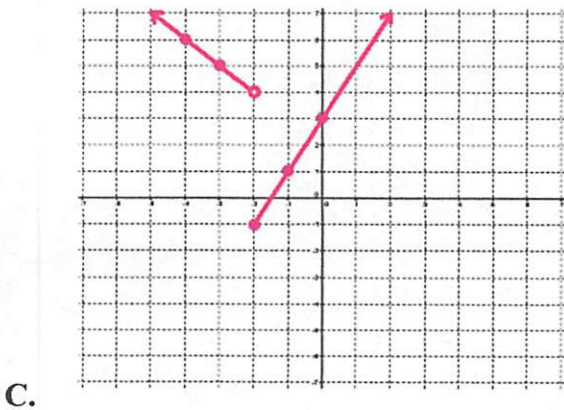
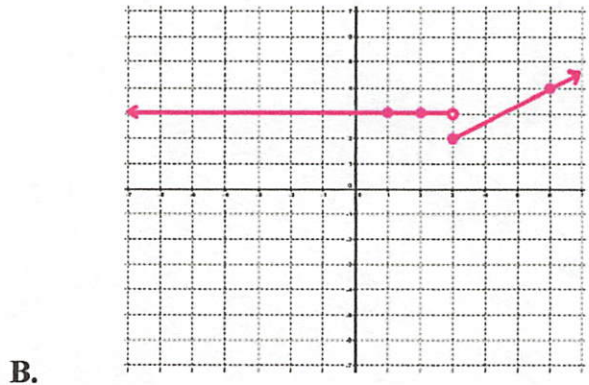
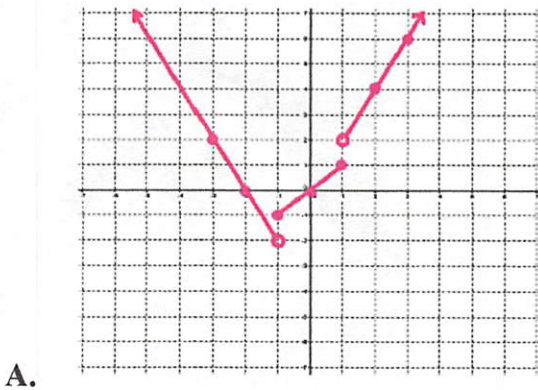
Match the piecewise function with its graph.

7.  $f(x) = \begin{cases} \frac{2}{3}x & x \geq 3 \\ 3 & x < 3 \end{cases}$  **B**

8.  $f(x) = \begin{cases} 2x + 3 & x \geq -2 \\ -x + 2 & x < -2 \end{cases}$  **C**

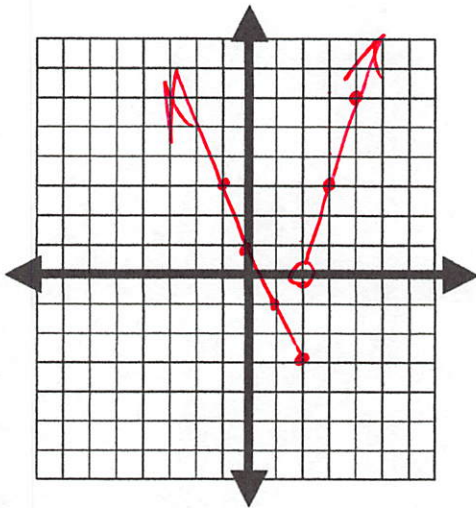
9.  $f(x) = \begin{cases} -3x + 1 & x \geq 1 \\ 2x + 1 & x < 1 \end{cases}$  **D**

10.  $f(x) = \begin{cases} 2x & x > 1 \\ x & -1 \leq x \leq 1 \\ -2x & x < -1 \end{cases}$  **A**

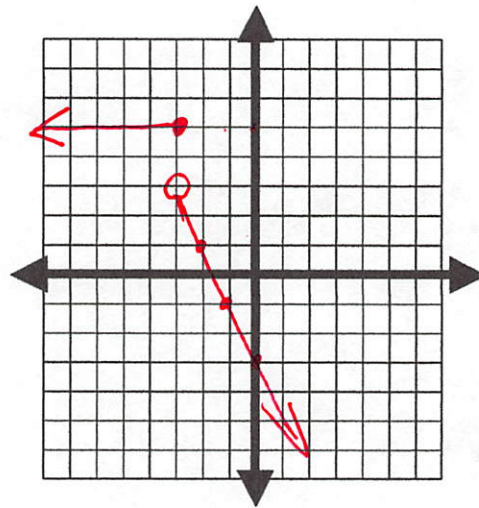


Carefully graph each of the following.

11.  $f(x) = \begin{cases} -2x + 1, & x \leq 2 \\ 3x - 6, & x > 2 \end{cases}$

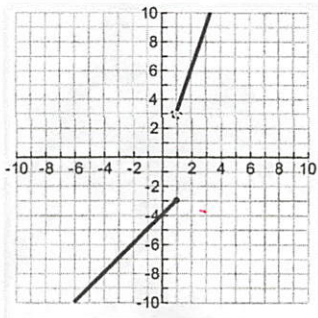


12.  $f(x) = \begin{cases} 5 & x \leq -3 \\ -2x - 3 & x > -3 \end{cases}$



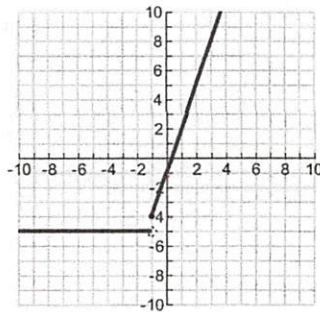
**I can write a piecewise function given a graph:**

Write equations for the piecewise functions whose graphs are shown below



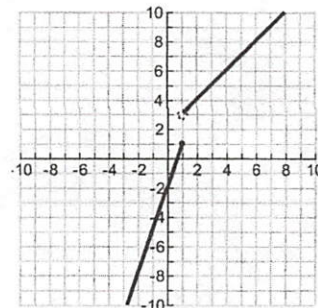
13.

$$f(x) = \begin{cases} x - 4 & x \leq 1 \\ 3x & x > 1 \end{cases}$$



14.

$$f(x) = \begin{cases} -5 & x > -1 \\ 3x - 1 & x \leq -1 \end{cases}$$



15.

$$f(x) = \begin{cases} 3x - 2 & x \leq 1 \\ x + 2 & x > 1 \end{cases}$$

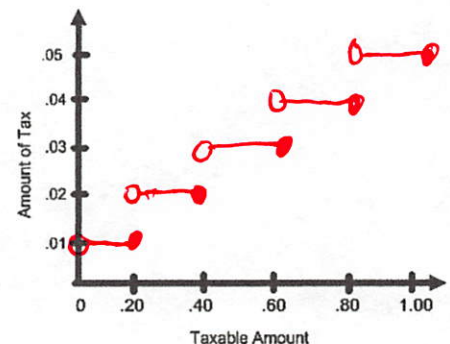
**I can graph a step function given an equation or given a context.**

16. The tax rate table is shown below. Write a piecewise function for a given cost.

Graph the function.

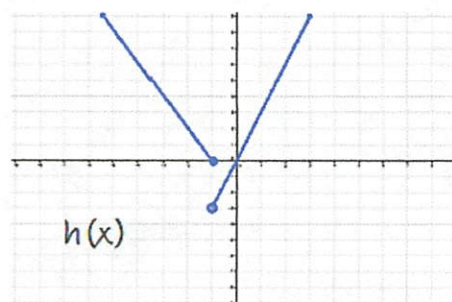
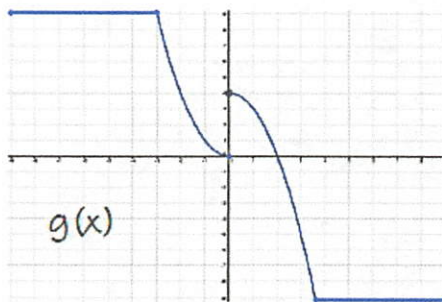
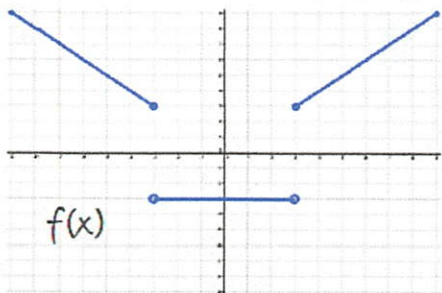
A Tax Table for Amounts up to \$1

- For amounts between \$0.01 and \$0.20, the tax is \$0.01.
- For amounts greater than \$0.20 and less than or equal to \$0.40, the tax is \$0.02.
- For amounts greater than \$0.40 and less than or equal to \$0.60, the tax is \$0.03.
- For amounts greater than \$0.60 and less than or equal to \$0.80, the tax is \$0.04.
- For amounts greater than \$0.80 and less than or equal to \$1.00, the tax is \$0.05.



I can graph a piecewise function:

I can evaluate a piecewise function:



Use the graphs above to evaluate the function for the given value of x.

1.  $f(0) =$
2.  $g(-4) =$
3.  $h(2) =$
4.  $g(1) =$
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6.  $f(5) =$

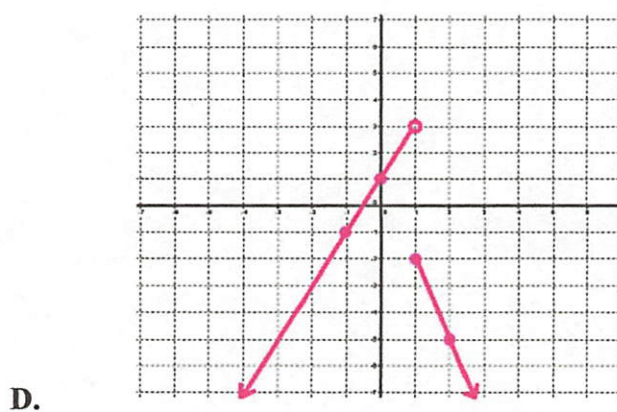
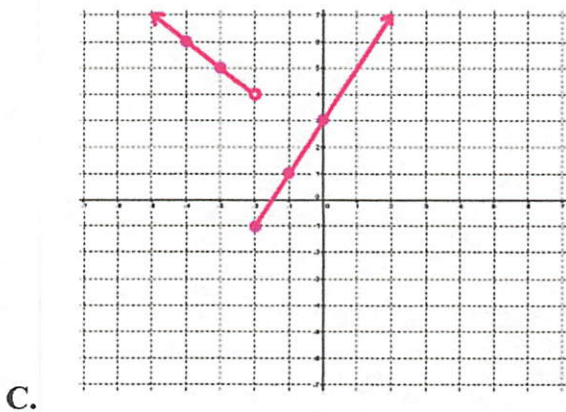
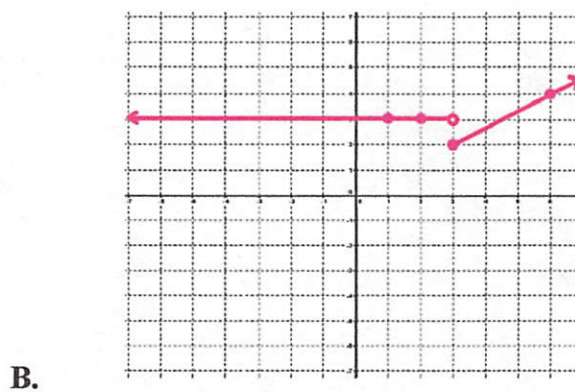
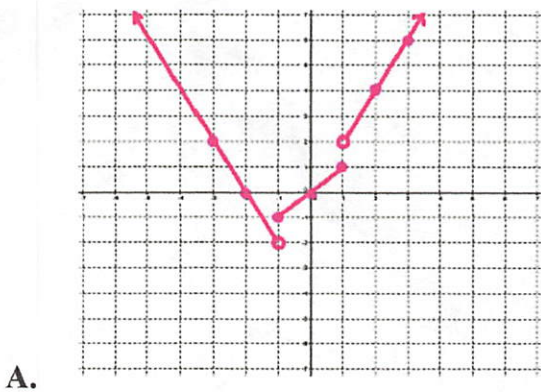
Match the piecewise function with its graph.

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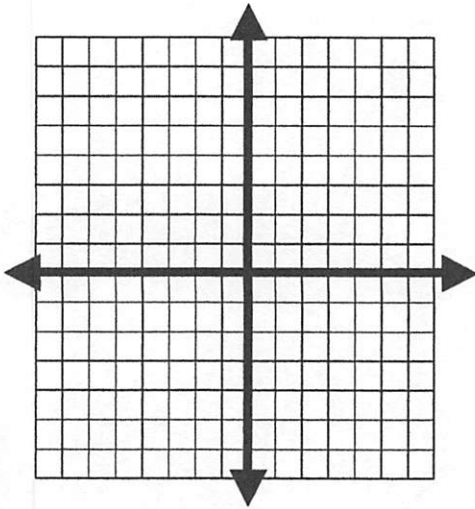
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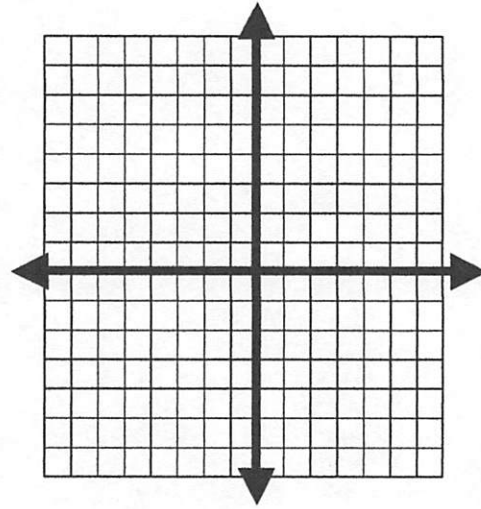


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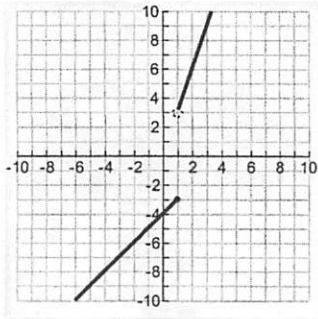


12.  $f(x) = \begin{cases} 5 & x \leq -3 \\ -2x - 3 & x > -3 \end{cases}$

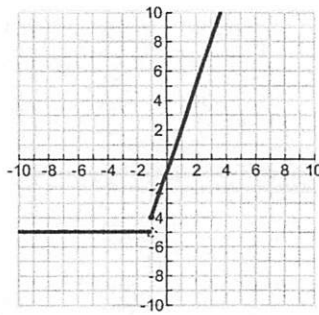


**I can write a piecewise function given a graph:**

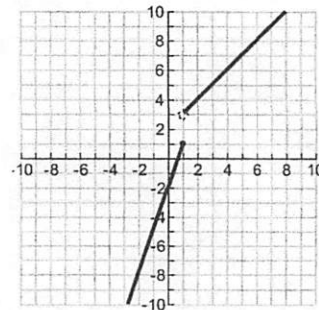
Write equations for the piecewise functions whose graphs are shown below



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