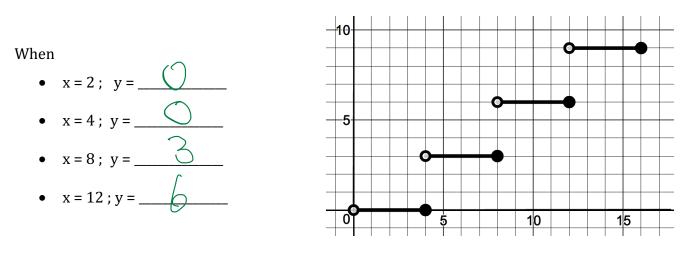
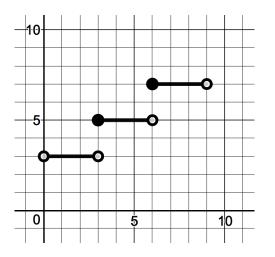
Name:	
Date:	

## **1.** Calculate the value of the function when x = 2, x = 4, x = 8, x = 12



X	У
20,43	Ô
]4.8]	3
]8, 12]	
712,167	Ŷ

**2.** Show that the values of x and y from this step function by building an interval notation table.



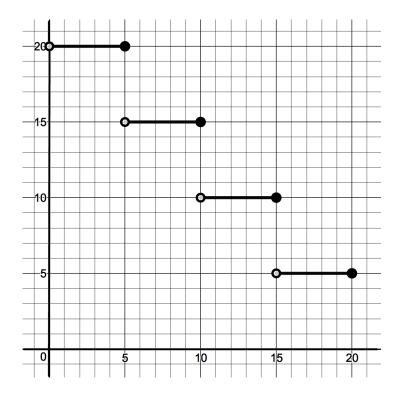
X	У
10,3E	$\mathcal{U}$
[3,6[	5
I6,9I	7

**3.** Evaluate this function at x = 5, x = 10, and x = 18

When

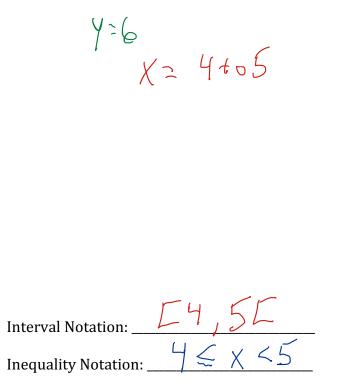
- x = 5; y = <u>20</u>
- x = 10; y = 15• x = 18; y = 5

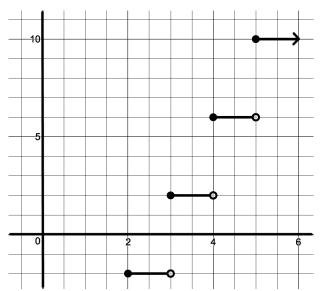
X	У
]0,5]	20
15,10]	15
]10,15]	10
]15,20]	[7]



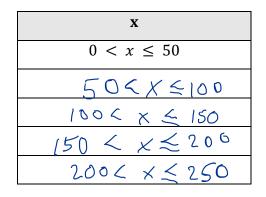
**4.** For what values of x *does y = 6*?

Use both *interval notation and inequality notation* in your answer.



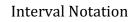


5. a) Represent the following intervals using inequality notation instead of interval notation,b) then sketch the graph.

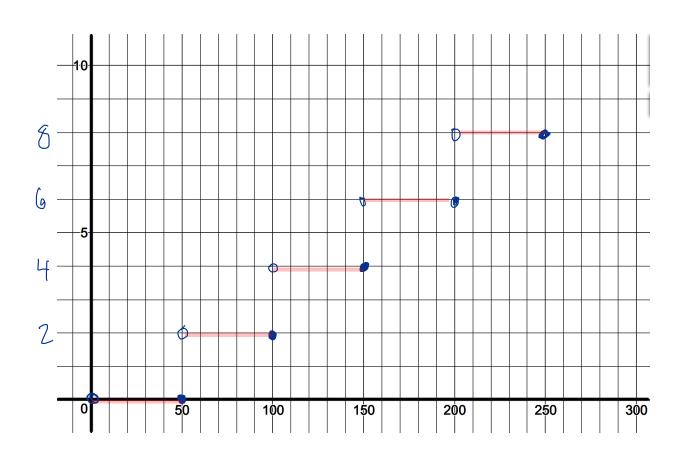


xy]0,50]0]50,100]2]100,150]4]150,200]6]200,250]8

Inequality Notation

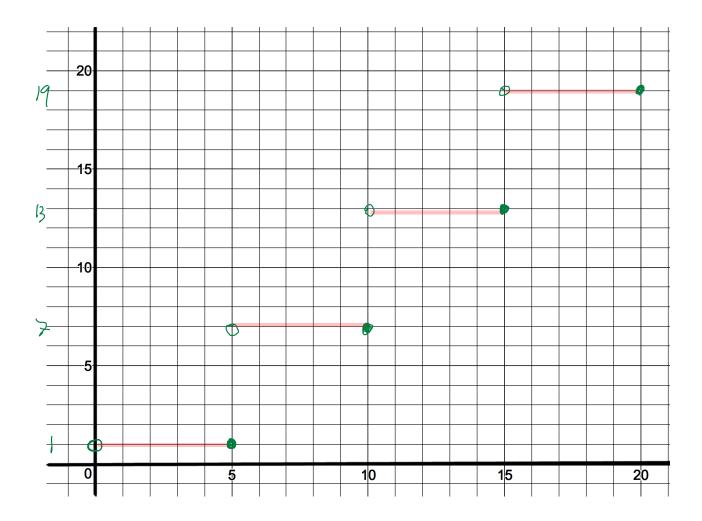


1



**6.** Sketch the function represented by the following table of values.

X	У
]0,5]	1
] 5 , 10 ]	7
] 10 , 15 ]	13
] 15 , 20 ]	19



Ashley tutors and bases her rate on the equation of the line depicted by the graph below.
Vaishnavi charges her clients based on the step function shown below.

Describe what circumstances would influence who you would hire if you needed a tutor, assuming they were both good. In other words, use the math to decide.

