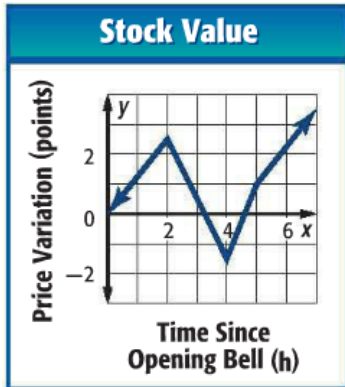


WS 4-4 – Interpreting Graphs

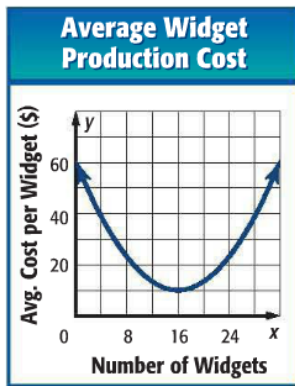
Write your ANSWERS on this page

1.



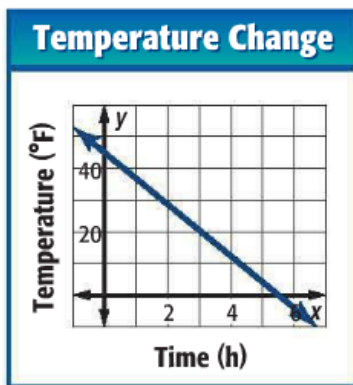
Linear?	
x -intercept(s)	
y -intercept(s)	
Positive	
Negative	
Increasing	
Decreasing	
Extrema	
As x decreases, y ...	
As x increases, y ...	

2.



Linear?	
x -intercept(s)	
y -intercept(s)	
Positive	
Negative	
Increasing	
Decreasing	
Extrema	
As x decreases, y ...	
As x increases, y ...	

3.



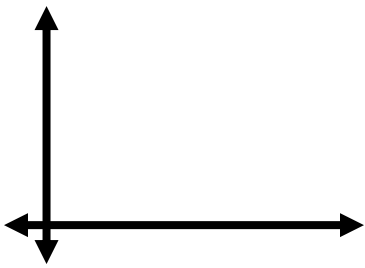
Linear?	
x -intercept(s)	
y -intercept(s)	
Positive	
Negative	
Increasing	
Decreasing	
Extrema	
As x decreases, y ...	
As x increases, y ...	

Sketch a graph of a function that could represent each situation. Identify and interpret the intercepts of the graph, where the graph is increasing and decreasing, and any relative extrema.

4. The height of a corn plant from the time the seed is planted until it reaches maturity 120 days later.

	What does the x -intercept represent?	
	What does the y -intercept represent?	
	When is it increasing?	
	When is it decreasing?	
	What are the extrema?	

5. The height of a football from the time it is punted until it reaches the ground 2.8 seconds later.



What does the x -intercept represent?

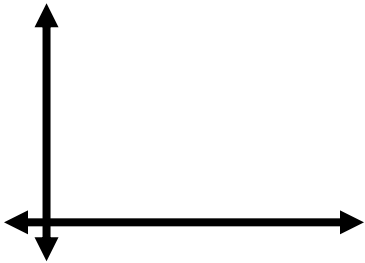
What does the y -intercept represent?

When is it increasing?

When is it decreasing?

What are the extrema?

6. The balance due on a car loan from the date the car was purchased until it was sold 4 years later.



What does the x -intercept represent?

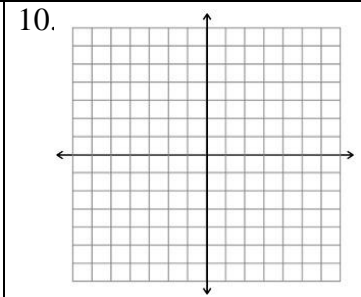
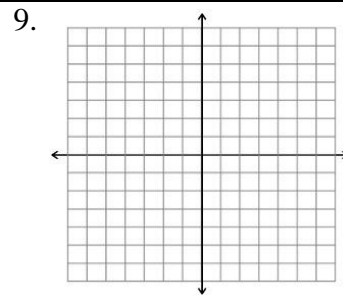
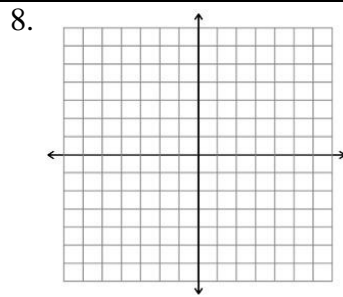
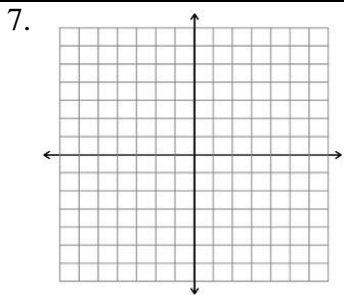
What does the y -intercept represent?

When is it increasing?

When is it decreasing?

What are the extrema?

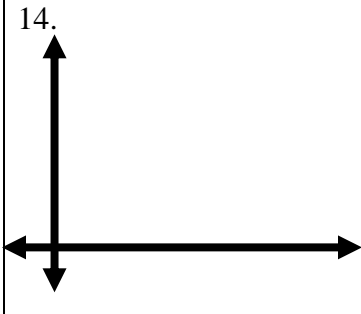
Use the “WS 4-4 – Questions” paper to complete the following questions.



11.

12.

13.



15.

16.

17.

18.

19.

20. **Ordered Pairs:**

Domain:

Range:

21.

22.

23.

