

Assignment 2-4

Sec 1

Increasing, Decreasing & Extrema

Unit 2

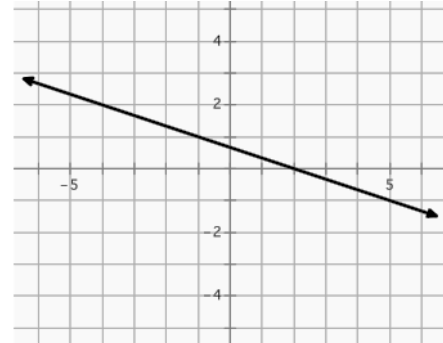
Identify the indicated characteristics for each graph using interval notation.

1. Increasing

Interval:

2. Decreasing

Interval:



3. Extrema

Minimum:

Maximum:

4. $f(-4)$

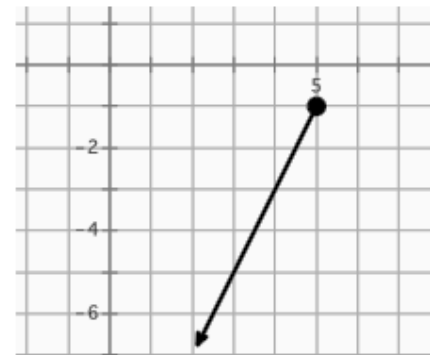
5. $f(x) = 1$

6. Increasing

Interval:

7. Decreasing

Interval:



8. Extrema

Minimum:

Maximum:

9. $f(3)$

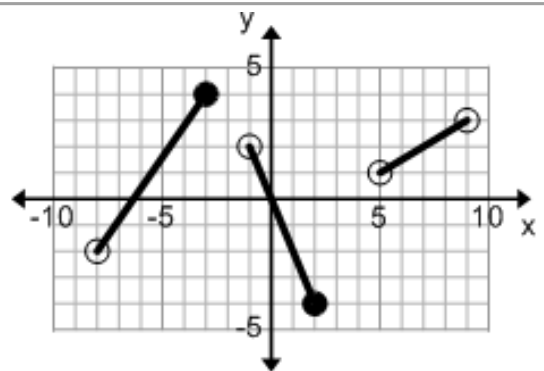
10. $f(x) = -1$

11. Increasing

Interval:

12. Decreasing

Interval:



13. Extrema

Minimum:

Maximum:

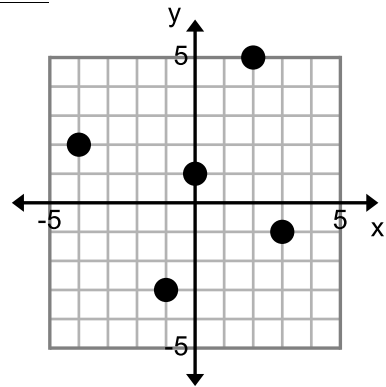
14. $f(1)$

15. $f(x) = -2$

Identify the indicated characteristics for each graph interval notation.

16. Increasing
 Set Builder:
 Interval:

17. Decreasing
 Set Builder:
 Interval:

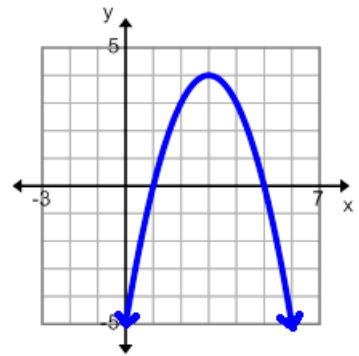


18. Extrema
 Minimum: Maximum:

19. $f(-4)$ **20. $f(x) = -1$**

1. 21. Increasing
 Interval:

22. Decreasing
 Interval:



23. Extrema
 Minimum: Maximum:

24. $f(1)$ **25. $f(x) = 4$**

Answer the following problems in **INTERVAL NOTATION**.

26. Is the graph below a function? _____ Why?

27. Domain: _____ Range: _____

28. Continuity: (circle your answer) Continuous, Non-Continuous, or Discrete?

29. Increasing: _____ Decreasing: _____

30. minimum: _____ maximum: _____

