

Name: _____ Period: _____

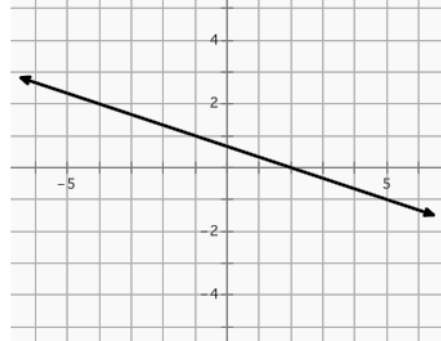
Score: _____ / _____ %

HW 2-4 HONORS: Increasing, Decreasing, & Extrema

Identify the indicated characteristics for each graph using set builder and interval notation.

1. Increasing
 Set Builder:
 Interval:

2. Decreasing
 Set Builder:
 Interval:

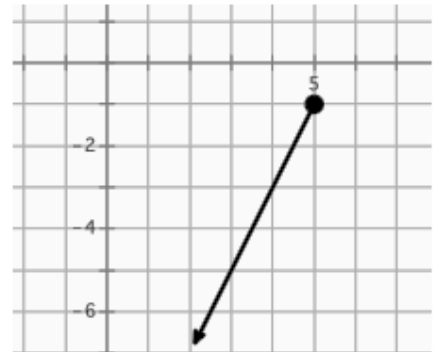


3. Extrema
 Minimum: Maximum:

4. $f(-4)$ **5. $f(x) = 1$**

6. Increasing
 Set Builder:
 Interval:

7. Decreasing
 Set Builder:
 Interval:

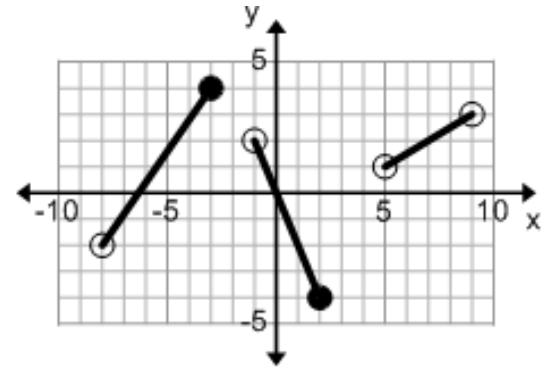


8. Extrema
 Minimum: Maximum:

9. $f(3)$ **10. $f(x) = -1$**

11. Increasing
 Set Builder:
 Interval:

12. Decreasing
 Set Builder:
 Interval:



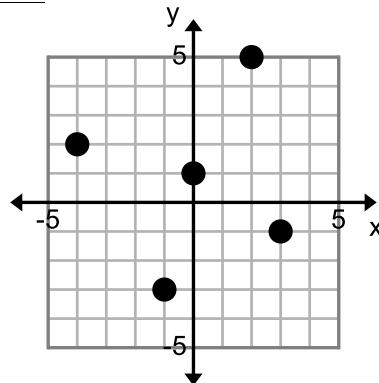
13. Extrema
 Minimum: Maximum:

14. $f(1)$ **15. $f(x) = -2$**

Identify the indicated characteristics for each graph using set builder notation.

16. Increasing
Set Builder:

17. Decreasing
Set Builder:



18. Extrema
Minimum: Maximum:

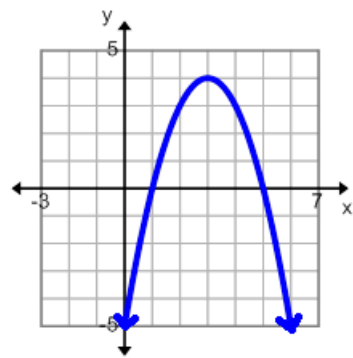
19. $f(-4)$ 20. $f(x) = -1$

1. 21. Increasing
Set Builder:

Interval:

22. Decreasing
Set Builder:

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: _____

