



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

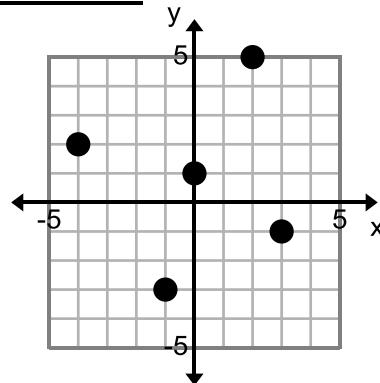
16. Increasing

Set Builder:

17. Decreasing

Set Builder:

NA



18. Extrema

Minimum:

Maximum:

19.  $f(-4)$

20.  $f(x) = -1$

$f(-4) = 2$

21. Increasing

Set Builder:

$x < 3$

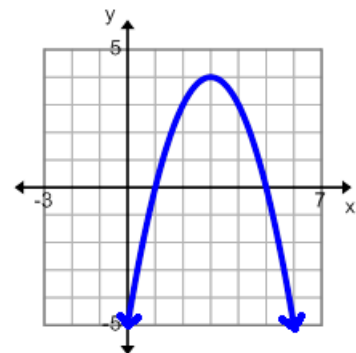
Interval:

$(-\infty, 3)$

22. Decreasing

Set Builder:

Interval:



23. Extrema

Minimum: **None**

Maximum:  $f(3) = 4$

24.  $f(1)$

25.  $f(x) = 4$

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

26. Is the graph below a function? \_\_\_\_\_ Why?

27. Domain:  $(-4, 4]$

Range:  $[-2, 2]$

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

29. Increasing:  $(-2, 2)$  Decreasing:  $(-4, -2)$   $(2, 4)$

30. minimum: \_\_\_\_\_ maximum: \_\_\_\_\_

