

Name: \_\_\_\_\_ Period: \_\_\_\_\_

Score: \_\_\_\_\_/\_\_\_\_\_  
\_\_\_\_\_ %

### HW 2-5 HONORS: Positive, Negative, & Intercepts

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

1. Positive

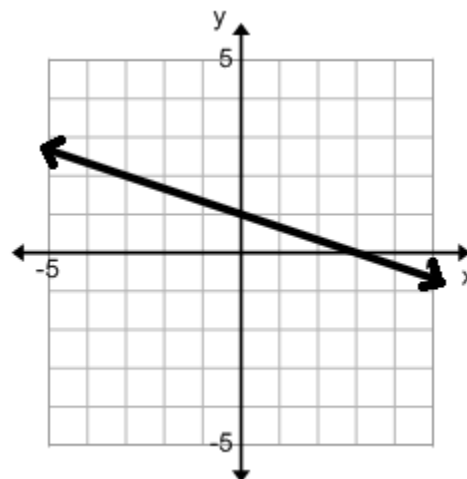
Set Builder:

Interval:

2. Negative

Set Builder:

Interval:



3. Intercepts

x-intercepts:

y-intercepts:

6. Positive

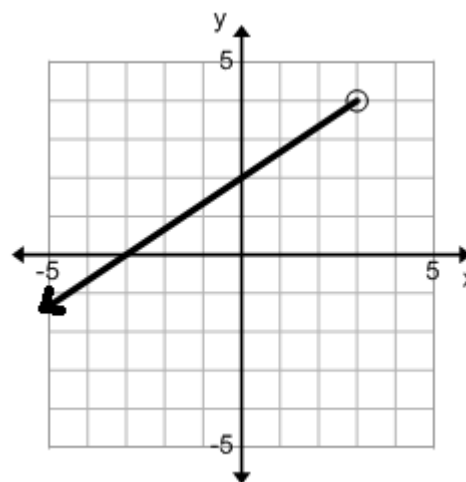
Set Builder:

Interval:

7. Negative

Set Builder:

Interval:



8. Intercepts

x-intercepts:

y-intercepts:

11. Positive

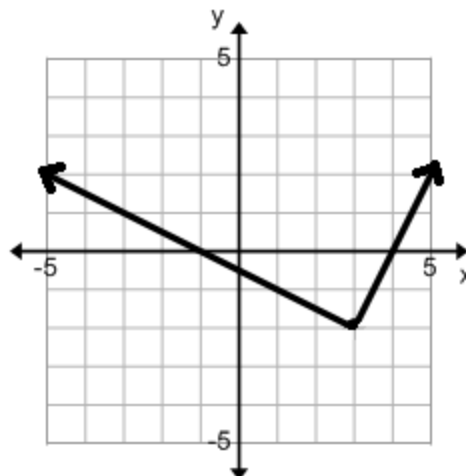
Set Builder:

Interval:

12. Negative

Set Builder:

Interval:



13. Intercepts

x-intercepts:

y-intercepts:

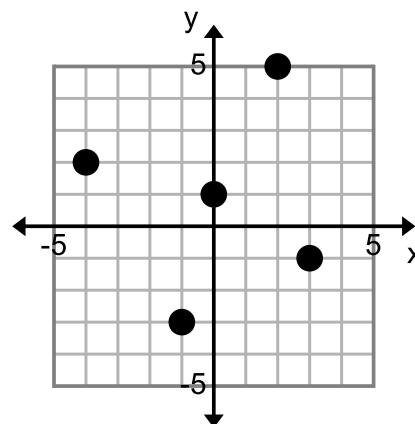
Identify the indicated characteristics for each graph using set builder notation.

16. Positive

Set Builder:

17. Negative

Set Builder:



18 Intercepts

$x$ -intercepts:

$y$ -intercepts:

21. Positive

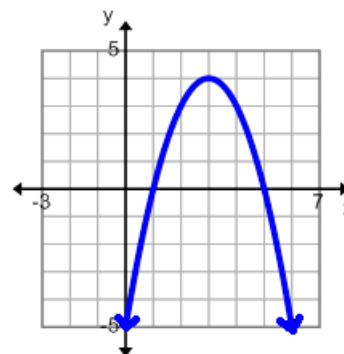
Set Builder:

Interval:

22. Negative

Set Builder:

Interval:



23. Intercepts

$x$ -intercepts:

$y$ -intercepts:

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: \_\_\_\_\_

31. Positive: \_\_\_\_\_ Negative: \_\_\_\_\_

32.  $x$ -intercept: \_\_\_\_\_  $y$ -intercept: \_\_\_\_\_

