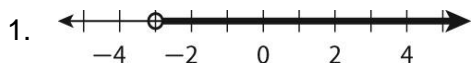


## Classwork 1-1 to 1-2

Describe the interval shown using an inequality, set notation, and interval notation.



Inequality: \_\_\_\_\_

Set Notation: \_\_\_\_\_

Interval Notation: \_\_\_\_\_



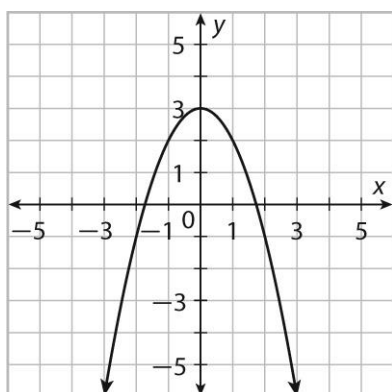
Inequality: \_\_\_\_\_

Set Notation: \_\_\_\_\_

Interval Notation: \_\_\_\_\_

State the domain and range of the graph. Then describe its end behavior, if any.

3. Graph of  $f(x) = -x^2 + 3$ :

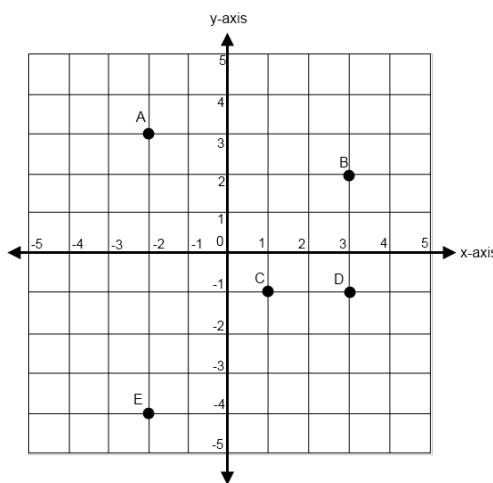


Domain: \_\_\_\_\_

Range: \_\_\_\_\_

End Behavior: \_\_\_\_\_

4.



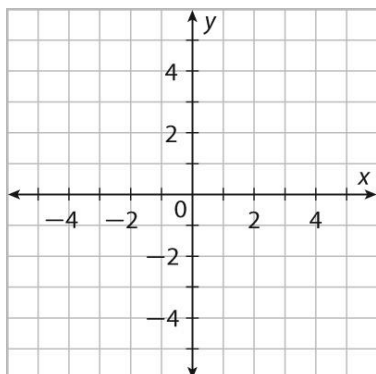
Domain: \_\_\_\_\_

Range: \_\_\_\_\_

End Behavior: \_\_\_\_\_

**For #5 Draw the graph of the function with its given domain. Then determine the range using interval notation.**

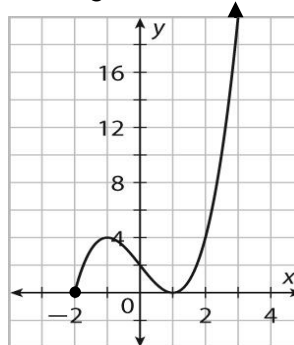
5.  $g(x) = -3x + 2$  with domain  $(-1, 2]$ :



Range: \_\_\_\_\_

6. On which interval(s) is the below function decreasing? (Answer in interval notation)

Decreasing: \_\_\_\_\_



7. What are the zero's of the graph above?

Zero's: \_\_\_\_\_