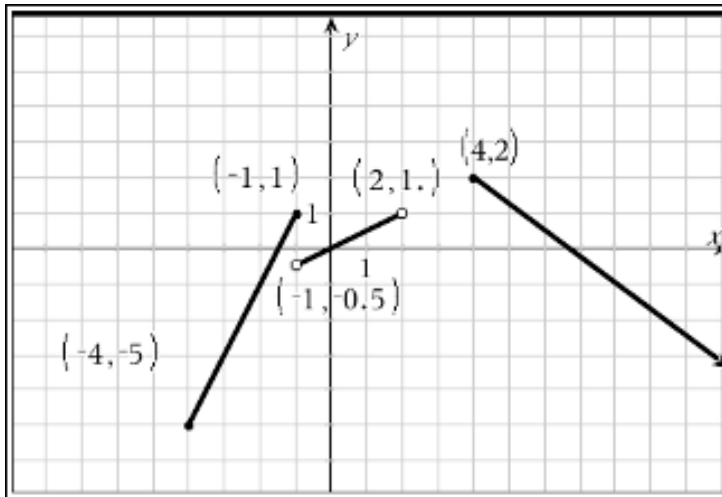Use the graph $f(x)$ of to answer questions 1-8.
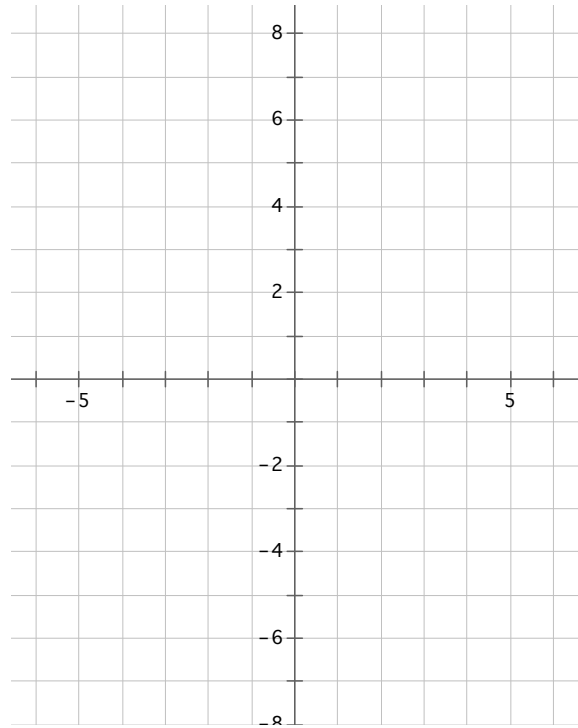


1.  Does this graph represent a function?

2.  State the domain and range.

3.  Find $f(-2)$

4.  Find $f(4)$.

5.  List all relative and absolute maxima and where they occur.

6.  List all relative and absolute minima and where they occur.

7.  State the intervals where the function is increasing and decreasing.

8.  Find x where $f(x) = -1$

Sketch a graph that meets the requirements.

9. Requirements:
   - Linear Function
   - Domain: $x \in [-3, \ 4)$
   - Range: $y \in [-1, 2)$



10. Requirements:
    - Domain: $x \in (-\infty, 5]$
    - Range: $y \in (-\infty, 3]$
    - $f(0) = -1$
    - Absolute Max at $f(2)$