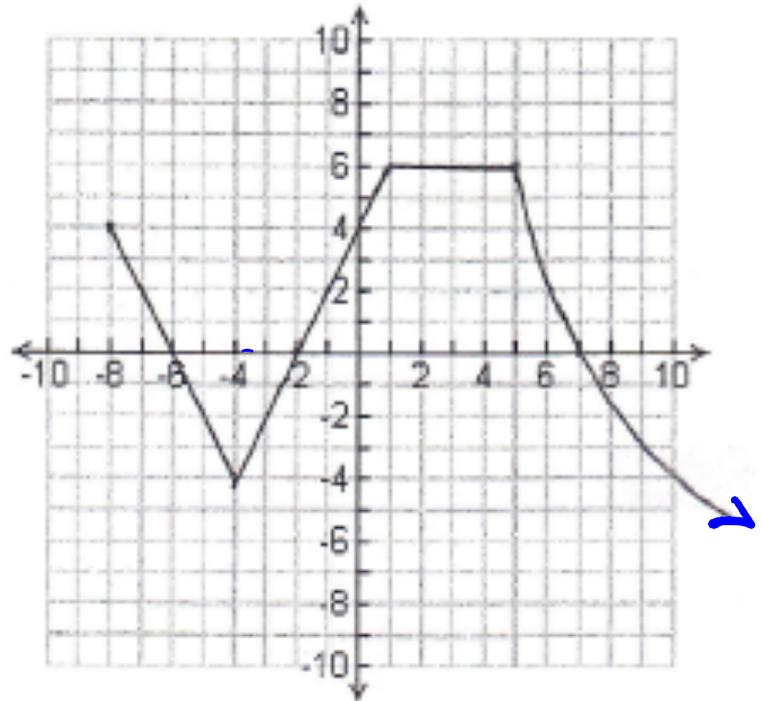


Answers

Properties of Functions



1. Domain: $[-8, \infty)$
2. Range: $-\infty, 6]$
3. Zero(s): $\{-6, -2, 7\}$
4. Y-intercept: 4
5. Sign:
 - a. Interval(s) over which $f(x)$ is positive: $[-8, 6] \cup [-2, 7]$
 - b. Interval(s) over which $f(x)$ is negative: $[-6, -2] \cup [7, \infty)$
6. Variation_
 - a. Interval(s) of increase: $[-4, 5]$
 - b. Interval(s) of decrease: $[-8, -4] \cup [1, \infty)$
7. Extrema (maximum or minimum if they exist): max: 6 min: \emptyset