

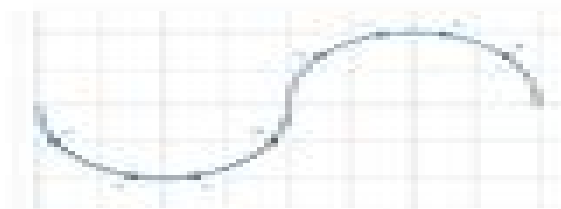
Section I Part A – Multiple Choice No Calculator
25 Questions – 50 Minutes

Directions: Read each question carefully and select only one choice that best answers each question. Mark your answers on the answer sheet, if provided. All other work besides your answer is not graded. Your total score is based on the number of questions correct, with no points being deducted for incorrect or unanswered questions. A calculator is not allowed on this section of the exam.

1. In the odd function $f(x)$, the $\lim_{x \rightarrow -2} f(x) = -\infty$. Which one of the following must also be true?
- a. $\lim_{x \rightarrow -2} f(x) = -\infty$ c. $\lim_{x \rightarrow -2} f(x) = -\infty$
 b. $\lim_{x \rightarrow -2} f(x) = \infty$ d. $\lim_{x \rightarrow -2} f(x) = \infty$
2. If the functions $f(x) = \sqrt{x}$ and $g(x) = \frac{1}{x-2}$ were combined according to the descriptions below, then which of the following would the combined function have a domain of $[0, 2) \cup (2, \infty)$?
- i. $f(x) + g(x)$
 ii. $(g \circ f)(x)$
 iii. $\frac{f(x)}{g(x)}$
- a. i only c. i and iii only
 b. ii only d. i, ii, and iii

For questions 3–4, use the graph of $g(x)$ on the right.

3. Which one of these intervals could g have an average rate of change of -2 and have rates of change that are changing at a rate of -2 ?
- a. $[A, B]$
 b. $[C, D]$
 c. $[E, F]$
 d. $[G, H]$
4. Which one of these intervals could g have a point of inflection?
- a. $[B, C]$
 b. $[D, E]$
 c. $[G, H]$
 d. The function g does not have a point of inflection between $[A, H]$.



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K Morrison



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