

**Section 3 Part A – Multiple-Choice Test Questions**  
**25 Questions – 30 Minutes**

**Directions:** Skipped, blank, questions, or multiple-select items will receive their own separate score. Blank, blank, answers and other responses other than provided, and other work besides your answer, do 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  $\lim_{x \rightarrow -\infty} f(x) = -\infty$ . Which one of the following must also be true?

- $\lim_{x \rightarrow -\infty} f(x) = -\infty$
- $\lim_{x \rightarrow -\infty} f(x) = \infty$
- $\lim_{x \rightarrow \infty} f(x) = -\infty$
- $\lim_{x \rightarrow \infty} f(x) = \infty$

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  $(0, 2) \cup (2, \infty)$ ?

- $f(x) = g(x)$
- $g(x) = f(x)$
- $\frac{f(x)}{g(x)}$
- $f(g(x))$
- 1 only
- 2 only
- 3 and 4 only
- 1, 3, and 4

Explanations 3–8, 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 neither a maximum nor a minimum?

- $[A, B]$
- $[C, D]$
- $[E, F]$
- $[G, H]$

4. Which one of these intervals could  $g$  have a point of inflection?

- $[B, C]$
- $[D, E]$
- $[G, H]$
- The function  $g$  does not have a point of inflection between  $[A, H]$ .



# Blue Pelican Math Pre Calc Answers

**Mary Jane Sterling**

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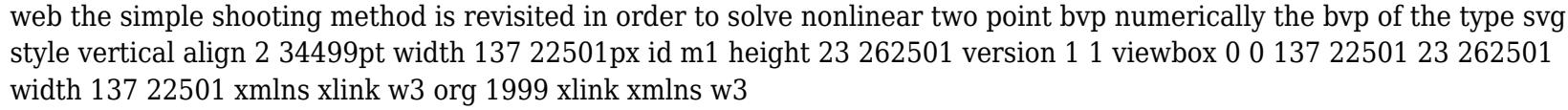
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