

## Part II

For each question, use the specific criteria to award a maximum of 2 credits. Unless otherwise specified, mathematically correct alternative solutions should be awarded appropriate credit.

- (25) [2] No, and a correct explanation is written.
- [1] Appropriate work is shown, but one computational error is made.
- or*
- [1] Appropriate work is shown, but one conceptual error is made.
- or*
- [1] No, but an incomplete explanation is written.
- [0] No is stated, but the explanation is missing.
- or*
- [0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously incorrect procedure.
- (26) [2] 3.5, and a correct justification is given.
- [1] Appropriate work is shown, but one computational or rounding error is made.
- or*
- [1] Appropriate work is shown, but one conceptual error is made.
- or*
- [1] 3.5, but no work is shown.
- [0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously incorrect procedure.
- (27) [2]  $y \geq .25$ , and correct work is shown.
- [1] Appropriate work is shown, but one computational error is made.
- or*
- [1] Appropriate work is shown, but one conceptual error is made.
- or*
- [1]  $y \geq .25$ , but no work is shown.
- [0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously incorrect procedure.

(28) [2] No, and a correct explanation is written.

[1] Appropriate work is shown, but one computational error is made.

*or*

[1] Appropriate work is shown, but one conceptual error is made.

*or*

[1] No, but the explanation is incomplete.

*or*

[1] No and  $\frac{7 + 18\sqrt{5}}{21}$  are written, but the explanation is missing or incorrect.

[0] No is stated, but the explanation is missing.

*or*

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously incorrect procedure.

(29) [2] The inequality is graphed correctly, and correct coordinates are stated.

[1] Appropriate work is shown, but one graphing error is made.

*or*

[1] Appropriate work is shown, but one conceptual error is made.

*or*

[1] The inequality is graphed correctly, but the coordinates are missing or incorrect.

*or*

[1] The coordinates of a point in the solution set are stated and checked, but no graph is drawn.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously incorrect procedure.

(30) [2]  $C = 1.29 + .99(s - 1)$  or  $C = .99s + .30$ , and a justification indicating she is not correct is given.

[1] Appropriate work is shown, but one computational error is made.

*or*

[1] Appropriate work is shown, but one conceptual error is made.

*or*

[1] A correct equation is written, but no further correct work is shown.

*or*

[1] Appropriate work is shown, but the equation is not written in terms of  $C$  and  $s$ .

*or*

[1] A justification indicating she is not correct is given, but no further correct work is shown.

[0] No is stated, but no further correct work is shown.

*or*

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously incorrect procedure.

(31) [2] 68 mph, and correct work is shown.

[1] Appropriate work is shown, but one computational error is made.

*or*

[1] Appropriate work is shown, but one conceptual error is made.

*or*

[1] Appropriate work is shown to find 68, but the units are not labeled.

*or*

[1] 68 mph, but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously incorrect procedure.

(32) [2] Neither, and a correct justification is given.

[1] Appropriate work is shown, but one conceptual error is made.

*or*

[1] Neither, but an incomplete justification is given.

[0] Neither is stated, but no further correct work is shown.

*or*

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously incorrect procedure.

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