

Part III

For each question, use the specific criteria to award a maximum of 4 credits. Unless otherwise specified, mathematically correct alternative solutions should be awarded appropriate credit.

(33) [4] Correct graphs are drawn, and a correct explanation, based on the graph, indicating they are equal is written.

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

or

[3] Both graphs are drawn correctly, but the explanation is missing or incorrect.

[2] Appropriate work is shown, but two or more graphing errors are made.

or

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

or

[2] The parabola is graphed correctly, but no further correct work is shown.

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

or

[1] Yes is stated, and an appropriate algebraic justification is given, but no further correct work is shown.

or

[1] The absolute value function is graphed correctly, but no further correct work is shown.

[0] Yes 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.

- (34) [4] A correct system of equations is written, 12.05, and correct algebraic work is shown.
- [3] Appropriate work is shown, but one computational error is made.
- or*
- [3] Appropriate work is shown to find 1.95, the price of a soda, but no further correct work is shown.
- [2] Appropriate work is shown, but two or more computational errors are made.
- or*
- [2] Appropriate work is shown, but one conceptual error is made.
- or*
- [2] A correct system of equations is written, but no further correct work is shown.
- or*
- [2] 12.05, but a method other than algebraic is used.
- [1] Appropriate work is shown, but one conceptual error and one computational error are made.
- or*
- [1] One equation is written correctly, but no further correct work is shown.
- or*
- [1] 12.05, 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.

- (35) [4] $f(x) = .75x + 4.5$, and correct explanations are written.
- [3] Appropriate work is shown, but one computational error is made.
- or**
- [3] Appropriate work is shown, but one explanation is missing or incorrect.
- or**
- [3] Appropriate work is shown, but the equation is not written in terms of $f(x)$.
- or**
- [3] Appropriate work is shown, but the explanations are incomplete.
- [2] Appropriate work is shown, but two or more computational errors are made.
- or**
- [2] Appropriate work is shown, but one conceptual error is made.
- or**
- [2] A correct equation in terms of $f(x)$ is written, but no further correct work is shown.
- or**
- [2] Correct explanations are written, but the equation is missing or incorrect.
- [1] Appropriate work is shown, but one conceptual error and one computational error are made.
- or**
- [1] The expression $.75x + 4.5$ is written, but no further correct 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.

- (36) [4] A correct graph is drawn, $(2.5, 55)$, and a correct explanation, which includes time and height, is written.
- [3] Appropriate work is shown, but one graphing error is made.
- or*
- [3] Appropriate work is shown, but the explanation is missing or incorrect.
- [2] Appropriate work is shown, but two or more graphing errors are made.
- or*
- [2] Appropriate work is shown, but one conceptual error is made.
- or*
- [2] A correct graph is drawn, but no further correct work is shown.
- or*
- [2] $(2.5, 55)$, and a correct explanation is written, but no further correct work is shown.
- [1] Appropriate work is shown, but one conceptual error and one graphing error are made.
- or*
- [1] $(2.5, 55)$, but no further correct work is shown.
- or*
- [1] A correct explanation is written, but no further correct 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.
-

Part IV

For this question, use the specific criteria to award a maximum of 6 credits. Unless otherwise specified, mathematically correct alternative solutions should be awarded appropriate credit.

(37) [6] A correct equation is written and solved algebraically, 10, 400, and a correct explanation stating that Ian is not correct is given.

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

or

[5] Appropriate work is shown, but the explanation is incomplete.

[4] Appropriate work is shown, but two computational errors are made.

or

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

or

[4] Appropriate work is shown to find 10 and 400, but no further correct work is shown.

or

[4] Appropriate work is shown, but the explanation is missing or incorrect.

[3] Appropriate work is shown, but three or more computational errors are made.

or

[3] Appropriate work is shown to find either 10 or 400, but no further correct work is shown.

or

[3] Appropriate work is shown, but one conceptual error and one computational error are made.

[2] Appropriate work is shown, but one conceptual error and two or more computational errors are made.

or

[2] Appropriate work is shown, but two conceptual errors are made.

or

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

or

[2] Appropriate work is shown to determine that Ian is incorrect, and a correct explanation is given, but no further correct work is shown.

[1] Appropriate work is shown, but two conceptual errors and one computational error are made.

or

[1] Two correct individual equations are written for Ian and Ken, but no further correct work is shown.

or

[1] 10 and 400, but no work is shown.

[0] Ian is incorrect, but no 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.
