The University of the State of New York REGENTS HIGH SCHOOL EXAMINATION

ALGEBRA I

Monday, August 19, 2024 — 8:30 to 11:30 a.m., only

MODEL RESPONSE SET

Table of Contents

| Question 25 | 2 |
|-------------|----|
| Question 26 | 6 |
| Question 27 | 11 |
| Question 28 | 16 |
| Question 29 | 20 |
| Question 30 | |
| Question 31 | 30 |
| Question 32 | 39 |
| Question 33 | 47 |
| Question 34 | 54 |
| Question 35 | 63 |
| | |









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26 If
$$f(x) = \frac{30x^2}{x+2}$$
, determine the value of $f(\frac{1}{2})$.
 $f(\frac{1}{2}) = \frac{30(\frac{1}{2})^2}{\frac{1}{2}+2}$
 $f(\frac{1}{2}) = \frac{30(0.25)}{2.5}$
 $f(\frac{1}{2}) = \frac{7.5}{2.5}$
 $f(\frac{1}{2}) = \frac{7}{2.5}$
 $f(\frac{1}{2}) = 3$





Γ

26 If
$$f(x) = \frac{3\alpha^2}{x+2}$$
, determine the value of $f(\frac{1}{2})$

$$\begin{aligned}
f'(\frac{1}{2}) &= \frac{3\alpha\frac{1}{2}}{\frac{1}{2}+2} \\
f'(\frac{1}{2}) &= \frac{15}{2} \\
f'(\frac{1}{2}) &= \frac{15}{2} \\
f'(\frac{1}{2}) &= \frac{6}{2} \\
f'(\frac{1}{2}) &= \frac{6}{2} \\
\end{aligned}$$
Score 1: The student made one computational error.



27 Explain why the relation shown in the table below is a function.

| x | -1 | 0 | 1 | 2 |
|---|----|---|---|---|
| У | 2 | 4 | 4 | 5 |

Every x value has only one y value which allows the relation to be a function.

Complete the table below with values for both x and y so that this new relation is *not* a function.

| x | -1 | 0 | 1 | 2 | |
|---|----|---|---|---|----|
| У | 2 | 4 | 4 | 5 | 51 |

Score 2: The student gave a complete and correct response.





| 27 Expla | iin why the | e relation sl | hown | in the | table | e belo | ow is | a fun | nctio | n. | |
|---|-------------|---------------|--------|----------|--------|--------|-------|-------|-------|------|-----------------------------------|
| | | | | c | -1 | 0 | | 1 | 2 | 2 | |
| | | | 3 | / | 2 | 4 | | 4 | 5 | 5 | |
| It is a Function because every input has an output. Complete the table below with values for both x and y so that this new relation is <i>not</i> a function. | | | | | | | | | | | |
| | | Γ | x | -1 | | 0 | 1 | | 2 | | > |
| | | | У | 2 | | 4 | 4 | ł | 5 | L | 1 |
| | | | | | | | | | | | |
| Score 0: | The stud | dent gave a | an inc | omple | ete ex | plana | ition | and | repe | ateo | d a point from the given relation |
| | | | | | | | | | | | |



28 Solve algebraically for *x*: 0.05(x-3) = 0.35x - 7.50.05(x-3)=0,35x-7.5 0.05x-015=0.35x7.5 -0.3x-0.15=7.5 -0.3x = -7.36 $|\chi = 24.5$

Score 2: The student gave a complete and correct response.

28 Solve algebraically for *x*: 0.05(x-3) = 0.35x - 7.5 $\begin{aligned} \chi - 3 &= 7\chi - 150\\ 6\chi &= 147\\ \chi &= \frac{147}{6}\end{aligned}$ The student gave a complete and correct response. Score 2:

| 28 Solve algebraically for <i>x</i> : | 0.05(x-3) = 0.35x - 7.5 |
|--|---|
| | 0.05(x-3)=0.35x-7.5 |
| | 0.05x - 0.15 = 0.35x - 7.5 + 7.5 + 7.5 |
| | 0.05x + 7.35 = 0.85x -0.05x -0.05x |
| | 7.35 = 0.3x 0.3 0.3 |
| | $2.45 = \infty$ |
| | |

Score 1: The student made one computational error.

28 Solve algebraically for *x*: 0.05(x-3) = 0.35x - 7.50.05 (x-3)= 0.35x - 75 0.05 x - .15 = 0.35 x - 75 - .15 = - 7.5 The student did not show enough grade-level work to receive any credit. Score 0:



Score 2: The student gave a complete and correct response.

















30 Factor $5x^3 - 80x$ completely.

$$X(5x^2 - 80)$$

Score 0: The student did not factor out 5*x*.

31 The owner of an ice cream stand kept track of the number of ice cream cones that were sold each day of the first week in June. She compared the ice cream sales to the average daily temperature. The data are shown in the table below.

| Average Daily Temp. (X) | 72 | 75 | 81 | 78 | 77 | 76 | 80 |
|--------------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Daily Ice Cream Cone Sales (y) | 126 | 183 | 263 | 229 | 200 | 185 | 249 |

State the linear regression equation for these data, rounding all values to the *nearest* <u>hundredth</u>.

$$M = 15.13 \times -959.63$$

State the correlation coefficient, to the *nearest hundredth*, for the line of best fit for these data.

0.99

State what this correlation coefficient indicates about the linear fit of the data.

This correlation coefficient indicates that the data has a strong possitive linear Bt.

Score 4: The student gave a complete and correct response.

31 The owner of an ice cream stand kept track of the number of ice cream cones that were sold each day of the first week in June. She compared the ice cream sales to the average daily temperature. The data are shown in the table below.

| Average Daily Temp. (x) | 72 | 75 | 81 | 78 | 77 | 76 | 80 |
|--------------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Daily Ice Cream Cone Sales (y) | 126 | 183 | 263 | 229 | 200 | 185 | 249 |

State the linear regression equation for these data, rounding all values to the *nearest hundredth*.

State the correlation coefficient, to the *nearest hundredth*, for the line of best fit for these data.

State what this correlation coefficient indicates about the linear fit of the data.

Score 3: The student did not state the strength of the correlation coefficient.

31 The owner of an ice cream stand kept track of the number of ice cream cones that were sold each day of the first week in June. She compared the ice cream sales to the average daily temperature. The data are shown in the table below.

| Average Daily Temp. (X) | 72 | 75 | 81 | 78 | 77 | 76 | 80 |
|--------------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Daily Ice Cream Cone Sales (y) | 126 | 183 | 263 | 229 | 200 | 185 | 249 |

State the linear regression equation for these data, rounding all values to the *nearest hundredth*.

State the correlation coefficient, to the *nearest hundredth*, for the line of best fit for these data.

$$r = 0.992$$

State what this correlation coefficient indicates about the linear fit of the data.

Score 3: The student rounded to the thousandths place.

31 The owner of an ice cream stand kept track of the number of ice cream cones that were sold each day of the first week in June. She compared the ice cream sales to the average daily temperature. The data are shown in the table below.

| Average Daily Temp. (X) | 72 | 75 | 81 | 78 | 77 | 76 | 80 |
|--------------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Daily Ice Cream Cone Sales (y) | 126 | 183 | 263 | 229 | 200 | 185 | 249 |

State the linear regression equation for these data, rounding all values to the *nearest hundredth*.

Slope = 15.13x
y int = -959.63

$$y = 15.13x - 959.63$$

 $y = 0x+b$

State the correlation coefficient, to the *nearest hundredth*, for the line of best fit for these data.

15.13

State what this correlation coefficient indicates about the linear fit of the data.

Every degree in temperature the arm goes up daily, 19.13 more ice creams one purchased.

Score 2: The student wrote a correct linear regression equation, but no further correct work was shown.

31 The owner of an ice cream stand kept track of the number of ice cream cones that were sold each day of the first week in June. She compared the ice cream sales to the average daily temperature. The data are shown in the table below.

| Average Daily Temp. (X) | 72 | 75 | 81 | 78 | 77 | 76 | 80 |
|--------------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Daily Ice Cream Cone Sales (y) | 126 | 183 | 263 | 229 | 200 | 185 | 249 |

State the linear regression equation for these data, rounding all values to the *nearest hundredth*.

State the correlation coefficient, to the *nearest hundredth*, for the line of best fit for these data.

1

State what this correlation coefficient indicates about the linear fit of the data.

There is a strong relationship between the Average Duily Temp and Daily Ice Cream kone sabs

Score 2: The student left out *x* in the equation and did not state a correct correlation coefficient.

31 The owner of an ice cream stand kept track of the number of ice cream cones that were sold each day of the first week in June. She compared the ice cream sales to the average daily temperature. The data are shown in the table below.

| Average Daily Temp. (x) | 72 | 75 | 81 | 78 | 77 | 76 | 80 |
|--------------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Daily Ice Cream Cone Sales (y) | 126 | 183 | 263 | 229 | 200 | 185 | 249 |

State the linear regression equation for these data, rounding all values to the *nearest hundredth*.

19917 ,992

State the correlation coefficient, to the *nearest hundredth*, for the line of best fit for these data.

R= iq stronglinear

State what this correlation coefficient indicates about the linear fit of the data.

Score 1: The student indicated strong, but no further correct work was shown.

31 The owner of an ice cream stand kept track of the number of ice cream cones that were sold each day of the first week in June. She compared the ice cream sales to the average daily temperature. The data are shown in the table below.

| Average Daily Temp. (X) | 72 | 75 | 81 | 78 | 77 | 76 | 80 |
|--------------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Daily Ice Cream Cone Sales (y) | 126 | 183 | 263 | 229 | 200 | 185 | 249 |

State the linear regression equation for these data, rounding all values to the *nearest hundredth*.

State the correlation coefficient, to the *nearest hundredth*, for the line of best fit for these data.

.99

State what this correlation coefficient indicates about the linear fit of the data.

it indicates that the amount of ice cream and Average temp is close together, everytime its notter more people buy ice cream.

Score 1: The student gave the correct correlation coefficient, but no further correct work was shown.

31 The owner of an ice cream stand kept track of the number of ice cream cones that were sold each day of the first week in June. She compared the ice cream sales to the average daily temperature. The data are shown in the table below.

| Average Daily Temp. (x) 72 75 81 78 77 76 80 Daily Ice Cream Cone Sales (v) 126 183 263 229 200 185 249 | | 72 | | | | | | |
|---|--------------------------------------|-----|------------|-----|-----|-----------|-----|-----|
| Daily Ice Image: Cream Cone 126 183 263 229 200 185 249 Sales (v) 100 183 263 229 200 185 249 | Average Daily Temp. (X) | 72 | 75 | 81 | 78 | 77 | 76 | 80 |
| | Daily Ice Cream Cone Sales (y) | 126 | 183 .75 | 263 | 229 | 200 79 | 185 | 249 |

State the linear regression equation for these data, rounding all values to the *nearest hundredth*.

State the correlation coefficient, to the *nearest hundredth*, for the line of best fit for these data.

State what this correlation coefficient indicates about the linear fit of the data.

The student did not show enough grade-level work to receive any credit. Score 0:

31 The owner of an ice cream stand kept track of the number of ice cream cones that were sold each day of the first week in June. She compared the ice cream sales to the average daily temperature. The data are shown in the table below.

| Average Daily Temp. (X) | 72 | 75 | 81 | 78 | 77 | 76 | 80 |
|--------------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Daily Ice Cream Cone Sales (y) | 126 | 183 | 263 | 229 | 200 | 185 | 249 |

State the linear regression equation for these data, rounding all values to the *nearest hundredth*.

y= 0.57 X

State the correlation coefficient, to the *nearest hundredth*, for the line of best fit for these data.

The correlation coefficient for the inperior of best-fit for these data is 0.57

State what this correlation coefficient indicates about the linear fit of the data.

This correlation coerficient indicates an increase in the average daily temperature.

The student did not show enough grade-level work to receive any credit. Score 0:

















33 An object is launched upward at 64 feet per second from a platform 80 feet above the ground. The function s(t) models the height of the object *t* seconds after launch. If $s(t) = -16t^2 + 64t + 80$, state the vertex of s(t), and explain in detail what each coordinate means in the context of the problem. (2,144) This coordinate means that the object reached its highest Point (144 Ft.) in the air at 2 Seconds. After the object is launched, how many seconds does it take for the object to hit the ground? Justify your answer. The object takes 5 seconds to hit the ground because the x-intercer is the point (5,0). Score 4: The student gave a complete and correct response.

If $s(t) = -16t^2 + 64t + 80$, state the vertex of s(t), and explain in detail what each coordinate means in the context of the problem.





After the object is launched, how many seconds does it take for the object to hit the ground? Justify your answer.





Score 4: The student gave a complete and correct response.

If $s(t) = -16t^2 + 64t + 80$, state the vertex of s(t), and explain in detail what each coordinate means in the context of the problem.

$$t = \frac{-b}{2a} = \frac{-16(2)^{2} + 64(2) + 80}{5(2) = -16(2)^{2} + 64(2) + 80}$$

$$t = \frac{-b}{2a} = \frac{-64}{5(2) = -144}$$

$$t = \frac{-64}{2(-16)} = \frac{-64}{144}$$

$$t = \frac{-64}{2(-16)} = \frac{-64}{144}$$

$$t = \frac{-64}{144}$$

t=2

After the object is launched, how many seconds does it take for the object to hit the ground? Justify your answer.

$$\frac{0}{-16} = \frac{-16t^{2} + 64t + 80}{-16}$$

$$\frac{-16}{-16} = \frac{-16}{-16} = \frac{-16}{-16}$$

$$\frac{-16}{-16} = \frac{-16}{-16}$$

Score 4: The student gave a complete and correct response.

If $s(t) = -16t^2 + 64t + 80$, state the vertex of s(t), and explain in detail what each coordinate means in the context of the problem.

After the object is launched, how many seconds does it take for the object to hit the ground? Justify your answer.



Score 3: The student did not give a justification for the number of seconds that it takes for the object to reach the ground.

If $s(t) = -16t^2 + 64t + 80$, state the vertex of s(t), and explain in detail what each coordinate means in the context of the problem.

Vertex is 144, I used Calculator

After the object is launched, how many seconds does it take for the object to hit the ground? Justify your answer.

II takes five seconds because the calculator Says X=5 and Y=0 meaning it hit the grand 5 seconds Ofter be lownched

Score 2: The student stated 5 seconds and justified their answer.

If $s(t) = -16t^2 + 64t + 80$, state the vertex of s(t), and explain in detail what each coordinate means in the context of the problem.

-11et is the hight of the object t second after it's Launined 1942 is those many feet per second it travel 80 is how many feet high the platform

After the object is launched, how many seconds does it take for the object to hit the ground? Justify your answer.

5 seconds

Score 1: The student stated 5 seconds, but no further correct work was shown.

If $s(t) = -16t^2 + 64t + 80$, state the vertex of s(t), and explain in detail what each coordinate means in the context of the problem.



Justify your answer.



Score 0: The student did not show enough correct work to receive any credit.



34 Solve the system of equations algebraically for all values of x and y. $y = x^2 + 4x - 1$ y = 2x + 7 $2x+7 = x^2 + 4x - 1$ -2x-7 = -2x-70=x2+2x-8 $\tilde{0} = (x+4)(x-2)$ E4,2=× y = 2(-4)+7 = -1 y = 2(2)+7 = 11 $\xi = 1, 1\xi = y$ x = -4 x = 2y = -1 y = 11The student gave a complete and correct response. Score 4:

| 34 Solve the system of equations algebraically for all values of x and y . | | | | | |
|--|--|--|--|--|--|
| $y = x^2 + 4x - 1$ | | | | | |
| y = 2x + 7 | | | | | |
| $x^{2} + 4x - 1 = 2x + 7$ -2x - 7 - 2x - 7 | | | | | |
| x ² -2x-8=0 | | | | | |
| (x - 4)(x + 2) = 0 | | | | | |
| $\frac{x - 4 = 0}{+4 + 4} \qquad \begin{array}{c} x + 2 = 0 \\ -2 - 2 \\ \hline x = 4 \\ \hline x = -2 \\ \end{array}$ | | | | | |
| y = 2(4) + 7 y = -4 + 7 | | | | | |
| y=6+7 $y=3y=15$ | | | | | |
| x = 4 $x = -2y = 15$ $y = 3$ | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Score 3: The student made one computational error. | | | | | |





34 Solve the system of equations algebraically for all values of x and y. $y = x^2 + 4x - 1$ y = 2x + 7 $2x+7-x^{2}+4x-1$ -2x-7 $x^{2}+2x-8-6$ (x+4)(x-2)=0The student showed appropriate work to find (x + 4)(x - 2) = 0, but no further correct work Score 2: was shown.

34 Solve the system of equations algebraically for all values of x and y. $y = x^2 + 4x - 1$ y = 2x + 7(-4,-1)(2,11)The student gave two correct solutions, but no work was shown. Score 1:

34 Solve the system of equations algebraically for all values of x and y. $y = x^2 + 4x - 1$ y = 2x + 7 $\sqrt{8+(-2x)} = x^2$ Y=(2-8)2+4(2-8)-1 Score 0: The student made multiple errors.

34 Solve the system of equations algebraically for all values of *x* and *y*. $y = x^2 + 4x - 1$ y = 2x + 7 $\begin{array}{l} \chi^{2} + 4\chi - 1 = 2\chi \chi \\ - \gamma \\ - \chi \\$ X2-9=-2X +8 +8 $\int X^2 = \sqrt{-2} \times + 8$ $X = \sqrt{-2} \times + \sqrt{7}$ Score 0: The student made multiple errors.

35 Jen joined the Fan Favorite Movie Club at the local movie theater. At this theater, the cost of admission in May and June remains the same. In May, she saw 2 matinees and 3 regular-priced shows and spent \$38.50. In June, she went to 6 matinees and one regular-priced show and spent \$47.50.

Write a system of equations to represent the cost, m, of a matinee ticket and the cost, r, of a regular-priced ticket.

$$2m + 3r = 38.50$$

 $(em + r = 47.50)$

Jen said she spent \$5.75 on each matinee and \$9 on each regular show. Is Jen correct? Justify your answer.



Use your system of equations to algebraically determine both the actual cost of each matinee ticket and the actual cost of each regular ticket.

Score 6: The student gave a complete and correct response.

35 Jen joined the Fan Favorite Movie Club at the local movie theater. At this theater, the cost of admission in May and June remains the same. In May, she saw 2 matinees and 3 regular-priced shows and spent \$38.50. In June, she went to 6 matinees and one regular-priced show and spent \$47.50.

Write a system of equations to represent the cost, m, of a matinee ticket and the cost, r, of a regular-priced ticket. system of equations m = matinees

$$2m + 3r = 38.50$$

$$-16m + 3r = 142.50$$

$$-16m = -104.00$$

$$r = 6.50$$

Jen said she spent \$5.75 on each matinee and \$9 on each regular show. Is Jen correct? Justify your answer.

Use your system of equations to algebraically determine both the actual cost of each matinee ticket and the actual cost of each regular ticket.

$$2m + 3r = 38.50 = 2m + 3r = 38.50$$

$$3(6m + r = 47.50) = -\frac{16m + 3r = 147.50}{-16m = -104}$$

$$m = maliners = m = 6.50$$

$$r = regular - prized shows = 6(6.5) + r = 47.50$$

$$39 + r = 47.50$$

$$r = 8.50$$

Score 6: The student gave a complete and correct response.

35 Jen joined the Fan Favorite Movie Club at the local movie theater. At this theater, the cost of admission in May and June remains the same. In May, she saw 2 matinees and 3 regular-priced shows and spent \$38.50. In June, she went to 6 matinees and one regular-priced show and spent \$47.50.

Write a system of equations to represent the cost, m, of a matinee ticket and the cost, r, of a regular-priced ticket.

| 2m | + | 3r | 1 | 38.50 |
|----|---|----|---|-------|
| 6m | + | Ir | = | 47.50 |

Jen said she spent \$5.75 on each matinee and \$9 on each regular show. Is Jen correct? Justify your answer.

$$2(5.75) + 3(9) = 38.50$$

$$38.50 = 38.50$$
No
$$6(5.75) + 1(9) = 47.50$$

$$43.50 \neq 47.50$$

Use your system of equations to algebraically determine both the actual cost of each matinee ticket and the actual cost of each regular ticket.

$$2m + 3r = 38.50$$

-18m - Br = -142.50
$$-16m = -104$$

-16
-16
-16
-16
-16

Score 5: The student did not find *r*.

35 Jen joined the Fan Favorite Movie Club at the local movie theater. At this theater, the cost of admission in May and June remains the same. In May, she saw 2 matinees and 3 regular-priced shows and spent \$38.50. In June, she went to 6 matinees and one regular-priced show and spent \$47.50.

Write a system of equations to represent the cost, m, of a matinee ticket and the cost, r, of a regular-priced ticket.

$$2m + 3r = 38.50$$

 $6m + 1r = 47.50$

Jen said she spent \$5.75 on each matinee and \$9 on each regular show. Is Jen correct? Justify your answer.

2(5.75) + 3(9) = 38.5011.50 + 27 = 38.5 $6(5.75) + 1(9) \pm 47.50$ NO, She is not correct

Use your system of equations to algebraically determine both the actual cost of each matinee ticket and the actual cost of each regular ticket.

Score 4: The student wrote a correct system of equations and a correct justification.

35 Jen joined the Fan Favorite Movie Club at the local movie theater. At this theater, the cost of admission in May and June remains the same. In May, she saw 2 matinees and 3 regular-priced shows and spent \$38.50. In June, she went to 6 matinees and one regular-priced show and spent \$47.50.

Write a system of equations to represent the cost, m, of a matinee ticket and the cost, r, of a regular-priced ticket.

38.50 = 2M + 31 47.50 = 6M + 11

Jen said she spent \$5.75 on each matinee and \$9 on each regular show. Is Jen correct? Justify your answer.

2m + 3r = 2 (5.75) + 3(9) 11.5 + 27 = 38.50 Jen is correct because when you Multiply the cost of each ticket by the amount of tickets and add both amounts you get \$38.50

Use your system of equations to algebraically determine both the actual cost of each matinee ticket and the actual cost of each regular ticket.

Score 3: This student wrote a correct system of equations and justified only in the first equation.

35 Jen joined the Fan Favorite Movie Club at the local movie theater. At this theater, the cost of admission in May and June remains the same. In May, she saw 2 matinees and 3 regular-priced shows and spent \$38.50. In June, she went to 6 matinees and one regular-priced show and spent \$47.50.

Write a system of equations to represent the cost, m, of a matinee ticket and the cost, r, of a regular-priced ticket.

$$M = 38.50(n)$$

Jen said she spent \$5.75 on each matinee and \$9 on each regular show. Is Jen correct? Justify your answer.

ND, if Jen went to 6 matinees the (and one regular) Price would have been 47.50 but 5.75.6+9 equals 43.50

Use your system of equations to algebraically determine both the actual cost of each matinee ticket and the actual cost of each regular ticket.

Score 2: The student gave a correct justification, but no further correct work was shown.

35 Jen joined the Fan Favorite Movie Club at the local movie theater. At this theater, the cost of admission in May and June remains the same. In May, she saw 2 matinees and 3 regular-priced shows and spent \$38.50. In June, she went to 6 matinees and one regular-priced show and spent \$47.50.

Write a system of equations to represent the cost, m, of a matinee ticket and the cost, r, of a regular-priced ticket.

Jen said she spent \$5.75 on each matinee and \$9 on each regular show. Is Jen correct? Justify your answer.

 $2 \times 5.75 = 11.50$ $9 \times 3 = 27$ Yes.

Use your system of equations to algebraically determine both the actual cost of each matinee ticket and the actual cost of each regular ticket.

Score 1: The student justified only in the first equation.

35 Jen joined the Fan Favorite Movie Club at the local movie theater. At this theater, the cost of admission in May and June remains the same. In May, she saw 2 matinees and 3 regular-priced shows and spent \$38.50. In June, she went to 6 matinees and one regular-priced show and spent \$47.50.__

Write a system of equations to represent the cost, m, of a matinee ticket and the cost, r, of a regular-priced ticket.

r= 38.50r-38 50m M- 47,50m-4750m

Jen said she spent \$5.75 on each matinee and \$9 on each regular show. Is Jen correct? Justify your answer.

45 because when you solve the EQ vation

Use your system of equations to algebraically determine both the actual cost of each matinee ticket and the actual cost of each regular ticket.

Score 0: The student did not show enough grade-level work to receive any credit.