END OF COURSE
ALGEBRA II (2001 Revised)

Form M0119, CORE 1

This released test contains 2 fewer test items (#1-48 only) than an original SOL EOC Algebra II test.

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Algebra II Formula Sheet

Geometric Formulas

\[ V = \frac{1}{3} \pi r^2 h \]
\[ S.A. = \frac{1}{2} lp + B \]
\[ p = 4s \]
\[ A = s^2 \]
\[ A = \frac{1}{2} lh \]
\[ A = \frac{1}{2} h(b_1 + b_2) \]
\[ p = 2(l + w) \]
\[ A = lw \]
\[ C = 2\pi r \]
\[ V = \frac{1}{2} \pi r^2 \]
\[ \pi \approx 3.14 \]
\[ \pi \approx \frac{22}{7} \]

Abbreviations

<table>
<thead>
<tr>
<th>Milligram</th>
<th>mg</th>
<th>Ounce</th>
<th>oz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gram</td>
<td>g</td>
<td>Pound</td>
<td>lb</td>
</tr>
<tr>
<td>Kilogram</td>
<td>kg</td>
<td>Quart</td>
<td>qt</td>
</tr>
<tr>
<td>Milliliter</td>
<td>mL</td>
<td>Gallon</td>
<td>gal.</td>
</tr>
<tr>
<td>Liter</td>
<td>L</td>
<td>Inch</td>
<td>in.</td>
</tr>
<tr>
<td>Kiloliter</td>
<td>kL</td>
<td>Foot</td>
<td>ft</td>
</tr>
<tr>
<td>Millimeter</td>
<td>mm</td>
<td>Yard</td>
<td>yd</td>
</tr>
<tr>
<td>Centimeter</td>
<td>cm</td>
<td>Mile</td>
<td>mi.</td>
</tr>
<tr>
<td>Meter</td>
<td>m</td>
<td>Square inch</td>
<td>sq in.</td>
</tr>
<tr>
<td>Kilometer</td>
<td>km</td>
<td>Square foot</td>
<td>sq ft</td>
</tr>
<tr>
<td>Square centimeter</td>
<td>cm^2</td>
<td>Cubic inch</td>
<td>cu in.</td>
</tr>
<tr>
<td>Cubic centimeter</td>
<td>cm^3</td>
<td>Cubic foot</td>
<td>cu ft</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Volume</th>
<th>V</th>
<th>Year</th>
<th>yr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total surface area</td>
<td>S.A.</td>
<td>Month</td>
<td>mon</td>
</tr>
<tr>
<td>Area of base</td>
<td>B</td>
<td>Hour</td>
<td>hr</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Minute</td>
<td>min</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Second</td>
<td>sec</td>
</tr>
</tbody>
</table>
Directions

Read each question and choose the best answer. For this test you may assume that the value of the denominator of a rational expression is not zero.

SAMPLE

\[
\frac{6(a + 2)}{a} \cdot \frac{a^3}{a + 2} =
\]

A \( \frac{6}{a^2} \)

B \( \frac{6(a + 2)}{a} \)

C \( 6a^2 \)

D \( \frac{6a^2 + 24a + 24}{a^4} \)
1 Which number is equivalent to \((32)^{\frac{3}{5}}\) ?

A  2  
B  6  
C  8  
D  16

2 For non-zero denominators, which expression is equivalent to \(\frac{5x-15}{(x-3)(x+3)}\) ?

F  \(\frac{-10}{x-9}\)  
G  \(\frac{5}{x-3}\)  
H  \(\frac{10}{9}\)  
J  \(\frac{5}{x+3}\)
3 If \( x \neq 0 \), which is equivalent to the following expression?

\[
\frac{y + z}{x} - \frac{z}{x}
\]

A \( \frac{y + 2z}{x} \)

B \( \frac{y}{x} \)

C \( \frac{y}{x - z} \)

D \( \frac{y - x}{x - z} \)

4 When completely factored, \( 2x^2 + 2x - 24 \) is equivalent to —

F \( 2(x - 3)(x + 4) \)

G \( 2(x + 3)(x - 4) \)

H \( 2(x + 6)(x - 2) \)

J \( (2x - 3)(x + 8) \)
5  Which of the following is equivalent to $\sqrt{-72} + \sqrt{-50}$?

A  $11i$
B  $-11i$
C  $11i\sqrt{2}$
D  $i\sqrt{122}$

6  Assuming no denominator is equal to zero, which is equivalent to the following expression?

$$\frac{x(x - 2)(x - 1)}{(x - 4)(x - 1)}$$

F  $\frac{x - 2}{x - 4}$
G  $\frac{x(x - 2)}{x - 4}$
H  $\frac{x}{2}$
J  $\frac{(x - 2)}{-4}$
7 Which expression is equivalent to $\sqrt[6]{x^3y^4}$?

A $\frac{1}{x^2y^3}$

B $\frac{1}{x^3y^2}$

C $x^2y^4$

D $x^2y^\frac{2}{3}$

8 Which expression is equivalent to $64x^2 - 81y^2$?

F $(8x + 9y)^2$

G $(8x - 9y)^2$

H $(8x + 9y)(8x - 9y)$

J $(8x + 9)(8x - 9)$

9 For which of the following sets is multiplication not commutative?

A Complex numbers

B Matrices

C Real numbers

D Whole numbers
10 The graph of $y = 3x - 2$ is translated up 5 units. What is the equation of the new graph?

F $y = 8x - 2$
G $y = 3x + 3$
H $y = 3x - 7$
J $y = 3x + 5$

11 Which equation best represents the data in this table?

<table>
<thead>
<tr>
<th>$x$</th>
<th>$y$</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>9</td>
</tr>
<tr>
<td>3</td>
<td>19</td>
</tr>
</tbody>
</table>

A $y = 2x + 1$
B $y = x^2 + 1$
C $y = 2x^2 + 1$
D $y = x + 1$
12 Which is a zero of \( f(x) = 6x^2 + 5x - 6 \)?

- F \(-\frac{3}{2}\)
- G \(-\frac{2}{3}\)
- H \(\frac{3}{2}\)
- J 6

13 \( y = x^2 - 8x + 15 \)

What are the \( x \)-intercepts of the graph that represents the equation?

- A (0, 3) and (0, 5)
- B (3, 0) and (5, 0)
- C (−8, 0) and (15, 0)
- D (0, −8) and (0, 15)
14 Given: \( a_n = a_1r^{n-1} \)

Which is the 6th term of the geometric sequence for which \( a_1 = 4 \) and \( r = \frac{-1}{2} \)?

F \( \frac{-1}{8} \)

G \( \frac{1}{16} \)

H \( \frac{1}{2} \)

J 1

15 If \( y \) varies jointly with \( x \) and \( z \), what is the constant of proportionality when \( y = 30 \), \( x = 4 \), and \( z = 5 \)?

A \( \frac{2}{3} \)

B \( \frac{3}{2} \)

C 21

D 24
Bill rode his bike to a store 5 kilometers from his house. The table shows the distance from the store paired with the number of minutes after leaving his house.

<table>
<thead>
<tr>
<th>Minutes (x)</th>
<th>Kilometers from Store (y)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>3.2</td>
</tr>
<tr>
<td>8</td>
<td>2.9</td>
</tr>
</tbody>
</table>

Which equation best models a line of best fit for the data?

F  $y = -0.2x + 4.5$
G  $y = -0.2x + 6.1$
H  $y = -0.3x + 4.9$
J  $y = -0.3x + 6.4$
17 For which set of data would the equation for the curve of best fit most likely be linear?

A

B

C

D
18  The height of an object when projected upward can be described by the equation \( h = 270t - 4.9t^2 \), where \( h \) is height and \( t \) is time. The relationship between the height of the object and the elapsed time is —

- F  an exponential function
- G  a linear function
- H  a quadratic function
- J  a step function

19  These are the first three terms of an arithmetic sequence.

\[
\frac{1}{2}, \frac{3}{4}, 1
\]

What are the fourth and fifth terms of the sequence?

- A  \(\frac{5}{4}, \frac{7}{4}\)
- B  \(\frac{5}{4}, \frac{3}{2}\)
- C  \(\frac{3}{2}, \frac{5}{2}\)
- D  \(\frac{3}{2}, 2\)
20 If \( f(x) = x^5 \) and \( g(x) = -2 - 3x^2 \), which is \( f(g(x)) \)?

F \( \frac{x^5}{-2x - 3x^{10}} \)

G \( (-2 - 3x^2)^5 \)

H \( (-2 - 3x^{10})^5 \)

J \( -2x^5 - 3x^7 \)

21 What is the number of turning points in the graph of the function of \( x \) defined below?

\[ y = 2x^2 + 5x - 7 \]

A 4
B 3
C 2
D 1
22  What is the value of \( \sum_{k=1}^{4} \left( \frac{1}{4} \right)^k \)?

F  \( \frac{85}{4} \)

G  \( \frac{85}{64} \)

H  \( \frac{85}{256} \)

J  \( \frac{21}{64} \)
23 Which graph most accurately represents the function $f(x) = -x^3 + 3$?
24 Which equation represents the statement “z varies directly with x and inversely with y”? 

F \( z = kxy \)

G \( z = \frac{kx}{y} \)

H \( z = \frac{ky}{x} \)

J \( z = \frac{k}{xy} \)

25 Which is the solution set for \(2x^2 - 7x + 6 = 0\)?

A \( \{1.5, 2\} \)

B \( \{-1.5, 2\} \)

C \( \{1.5, -2\} \)

D \( \{-1.5, -2\} \)
26 Which graph best represents the following equation?

\[ y = |x - 4| \]
27  What is the solution set for the following equation?

\[ 3\sqrt{x-3} = 15 \]

A \{ \frac{34}{3} \}

B \{ \frac{41}{3} \}

C \{ 24 \}

D \{ 28 \}

28  The width of a rectangular window is 2 feet more than its height. If the area is 35 square feet, what is the height?

F 9 ft

G 7 ft

H 5 ft

J 3 ft
29 Which value of $x$ is a solution to the equation below?

\[
\frac{\sqrt{2x} + 2}{4} = 3
\]

A 12.5  
B 25  
C 50  
D 70

30 Which is the solution set of \( \left| \frac{1}{2}x - 5 \right| = 3 \)?

F \{ 16 \}  
G \{ -16, 16 \}  
H \{ -1, 11 \}  
J \{ 4, 16 \}
31 Which are the apparent zeros of the function shown in the graph?

A  -6, -2, 4
B  -2, 4
C  1, -7
D  2, -4

32 When \( x \neq 0 \), what is the solution set for \( \frac{x - 4}{4} = \frac{x - 3}{x} \)?

F  \{ 4 \}
G  \{ 6 \}
H  \{ 2, 6 \}
J  \{ 3, 4 \}
33 What is the solution set to \(2x^2 + 5x - 3 = 0\) ?

A \(\left\{ \frac{-3}{2}, -1 \right\}\)

B \(\left\{ \frac{-1}{2}, 3 \right\}\)

C \(\left\{ -3, \frac{1}{2} \right\}\)

D \(\left\{ \frac{3}{2}, 1 \right\}\)

34 What are all the roots for the equation \(|2u - 9| = 5\) ?

F -2 and -7
G -2 and 7
H 2 and -7
J 2 and 7
35 What are the coordinates of the vertex of the graph of \( y + 5 = (x - 2)^2 \) ?

A  \((2, -5)\)

B  \((2, 5)\)

C  \((-2, 5)\)

D  \((-2, -5)\)

36 A polynomial function has a zero at \( x = 6 \). Which expression must be a factor of the polynomial?

F  \( x - 36 \)

G  \( x - 6 \)

H  \( x + 6 \)

J  \( x + 36 \)
The conic section graphed above is —

A  a parabola
B  a hyperbola
C  a circle
D  an ellipse
38 A polynomial function, $P(x)$, is graphed as follows.

What is the apparent solution set for $P(x) = 0$?

F $\{-2, 2\}$

G $\{-4, 0\}$

H $\{0, 2\}$

J $\{-4\}$

39 What are the $x$-intercepts for the graph of $y = x^2 + 5x - 6$?

A $(0, 1)$ and $(0, -6)$

B $(1, 0)$ and $(-6, 0)$

C $(0, -1)$ and $(0, 6)$

D $(-1, 0)$ and $(6, 0)$
40. The graph of which function *appears* to have 2 and -3 as zeros?
41  The dimensions of matrix $A$ are $2 \times 3$. The dimensions of matrix $B$ are $3 \times 17$. What are the dimensions of matrix $AB$?

A  $2 \times 17$
B  $3 \times 17$
C  $17 \times 2$
D  $17 \times 3$

42  What is the solution set for the following system of equations?

\[
\begin{align*}
y &= x^2 - 2x + 1 \\
y &= 3 - x
\end{align*}
\]

F  \{ (0, 3), (1, 2) \}
G  \{ (-2, -5), (-1, 4) \}
H  \{ (-2, 5), (1, 2) \}
J  \{ (-1, 4), (2, 1) \}
43 Which of the following represents this system?

\[ \begin{align*}
2x - 3y &= 7 \\
5x + 4y &= -1
\end{align*} \]

A \[ \begin{bmatrix} 2 & 5 \\ -3 & 4 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 7 \\ -1 \end{bmatrix} \]

B \[ \begin{bmatrix} 4 & 3 \\ -5 & 2 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 7 \\ -1 \end{bmatrix} \]

C \[ \begin{bmatrix} 2 \\ 5 \end{bmatrix} - \begin{bmatrix} 3 \\ 4 \end{bmatrix} = \begin{bmatrix} x \\ y \end{bmatrix} \]

D \[ \begin{bmatrix} 2 & -3 \\ 5 & 4 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 7 \\ -1 \end{bmatrix} \]
The matrix shows the number of flowers in four types of flower arrangements.

<table>
<thead>
<tr>
<th></th>
<th>Roses</th>
<th>Daisies</th>
<th>Lilies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type 1</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Type 2</td>
<td>3</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Type 3</td>
<td>0</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Type 4</td>
<td>1</td>
<td>3</td>
<td>2</td>
</tr>
</tbody>
</table>

If roses cost $3, daisies cost $1, and lilies cost $2, which product would represent the cost of each type of flower arrangement?

- $F$:

  \[
  \begin{bmatrix}
  3 & 0 & 0 \\
  3 & 4 & 0 \\
  0 & 4 & 3 \\
  1 & 3 & 2
  \end{bmatrix}
  \begin{bmatrix}
  3 \\
  1 \\
  2
  \end{bmatrix}
  \]

- $G$:

  \[
  \begin{bmatrix}
  3 & 0 & 0 \\
  3 & 4 & 0 \\
  0 & 4 & 3 \\
  1 & 3 & 2
  \end{bmatrix}
  \begin{bmatrix}
  3 \\
  1 \\
  2
  \end{bmatrix}
  \]

- $H$:

  \[
  \begin{bmatrix}
  3 & 0 & 0 \\
  3 & 4 & 0 \\
  0 & 4 & 3 \\
  1 & 3 & 2
  \end{bmatrix}
  \begin{bmatrix}
  1 & 2 & 3
  \end{bmatrix}
  \]

- $J$:

  \[
  \begin{bmatrix}
  3 & 0 & 0 \\
  3 & 4 & 0 \\
  0 & 4 & 3 \\
  1 & 3 & 2
  \end{bmatrix}
  \begin{bmatrix}
  1 \\
  2 \\
  3
  \end{bmatrix}
  \]
45 Which set of ordered pairs represents the vertices of the region that is the solution to the following system of inequalities?

\[
\begin{align*}
    y & \leq 1 \\
    x & \geq -2 \\
    y & \geq \frac{1}{2} x + 1
\end{align*}
\]

A  \{ (-2, 1), (0, 1), (-2, 0) \}
B  \{ (2, -1), (0, -1), (2, 0) \}
C  \{ (2, -1), (2, 0), (1, 0) \}
D  \{ (1, -2), (1, 0), (0, -2) \}
If \[
\begin{bmatrix}
4 & -2 \\
1 & 3
\end{bmatrix}
\cdot N =
\begin{bmatrix}
1 & 0 \\
0 & 1
\end{bmatrix},
\] what is \( N \)?

\[
N = F = \begin{bmatrix}
3 & 1 \\
14 & 7 \\
-1 & 2 \\
14 & 7
\end{bmatrix}
\]

\[
G = \begin{bmatrix}
2 & -1 \\
7 & 7 \\
-1 & 3 \\
14 & 14
\end{bmatrix}
\]

\[
H = \begin{bmatrix}
3 & 1 \\
10 & 5 \\
-1 & 2 \\
10 & 5
\end{bmatrix}
\]

\[
J = \begin{bmatrix}
2 & -1 \\
5 & 5 \\
1 & 3 \\
10 & 10
\end{bmatrix}
\]
Which is the apparent solution set for the system of equations shown on the graph?

A  { (0, 2), (2, 0) }

B  { (-4, 0), (0, -4), (0, 4), (4, 0) }

C  { (-1.6, 3.6), (3.6, -1.6) }

D  { (-4, 0), (-1.6, 3.6), (0, -4), (3.6, -1.6), (4, 0) }
48 Which graph shows the feasibility region of the following system of inequalities?

\[
\begin{align*}
    y &\geq 0 \\
y &\leq x \\
x + y &\leq 5
\end{align*}
\]
<table>
<thead>
<tr>
<th>Test Sequence Number</th>
<th>Correct Answer</th>
<th>Reporting Category</th>
<th>Reporting Category Description</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>C</td>
<td>001</td>
<td>Expressions and Operations</td>
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<tr>
<td>2</td>
<td>J</td>
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<td>B</td>
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<td>16</td>
<td>H</td>
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<td>002</td>
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<td>19</td>
<td>B</td>
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<tr>
<td>20</td>
<td>G</td>
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<tr>
<td>25</td>
<td>A</td>
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</tr>
<tr>
<td>26</td>
<td>H</td>
<td>003</td>
<td>Equations and Inequalities</td>
</tr>
<tr>
<td>27</td>
<td>D</td>
<td>003</td>
<td>Equations and Inequalities</td>
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<td>28</td>
<td>H</td>
<td>003</td>
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<tr>
<td>29</td>
<td>C</td>
<td>003</td>
<td>Equations and Inequalities</td>
</tr>
<tr>
<td>30</td>
<td>J</td>
<td>003</td>
<td>Equations and Inequalities</td>
</tr>
<tr>
<td>31</td>
<td>B</td>
<td>003</td>
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<td>H</td>
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<td>Equations and Inequalities</td>
</tr>
<tr>
<td>33</td>
<td>C</td>
<td>003</td>
<td>Equations and Inequalities</td>
</tr>
<tr>
<td>34</td>
<td>J</td>
<td>003</td>
<td>Equations and Inequalities</td>
</tr>
<tr>
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