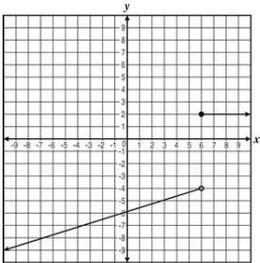
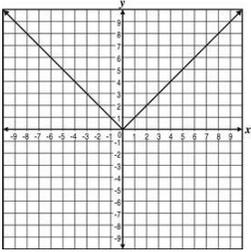
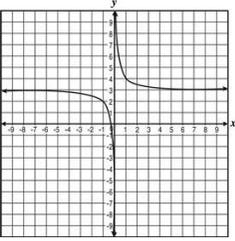


Algebra II Instructional Support

Daily Task: Review class notes related to each unit. Complete the three review questions designated for each day. Show all work on a separate piece of paper.

| | Question 1 | Question 2 | Question 3 |
|----------------------|---|--|---|
| Day One: Unit 1 | SOL AII.1c What is the factored form of $16m^2 - 24mn^2 + 9n^4$? | SOL AII.3a Given $ x + 1 \leq 3$, graph the possible values of x ? | SOL AII.3a Graph the solution of the inequality below. $ -7t - 9 \leq 12$ |
| Day Two: Unit 2 | SOL AII.7a The piecewise function $y = \begin{cases} 2 & \text{if } 1 \leq x < 2 \\ 4 & \text{if } 2 \leq x < 3 \\ 6 & \text{if } 3 \leq x < 4 \end{cases}$ Graph the function and identify the domain and range? | SOL AII.7a What is the range for a function of distance traveled, d , for time, t ? ($d = rt$) | SOL AII.7a Is the graph continuous between $x=0$ and $x=5$?  |
| Day Three: Unit 3 | SOL AII.7a What is the range of $f(x) = 2x^2 + 16x + 37$? | SOL AII.7b A company's profit is described by the formula $P(x) = -5x^2 + 600x + 15,000$ where x is the price in dollars that the company charges for its product. What should the company charge for the product to generate the maximum profit, P ? | SOL AII.7c A ball is tossed up into the air from a height of 50 feet. The height, h , of the ball, in feet, is given by the function $h(t) = -16t^2 + 64t + 50$, where t is the time in seconds. What is the maximum height of the ball, in feet? |
| Day Four: Unit 3 | SOL AII.7k Let $f(x) = x^2 - 2x$ and $g(x) = (1 - x)$. Which of the following expressions is the result of $f(g(x))$? | SOL AII.7e The discriminant of a quadratic equation is 16. How many real solutions exist to the equation? | SOL AII.7f The graph of $y = x $ is shown below.  What is the solution if $x = -7$? |
| Day Five: Unit 4 | SOL AII.7d Find the solutions to $3x^3 + 3x^2 - 12x - 12 = 0$? | SOL AII.7j Which of the following is the inverse of the equation | SOL AII.7g Which function is represented by the graph? |

| | | | |
|----------------------|---|---|---|
| | | $y = 8 - \frac{1}{x}$? |  |
| Day Five: Unit 5 | SOL AII.2 Which expression is equivalent to $\frac{2+3i}{4+i}$? | SOL AII.3b Which expressions are the solutions to the quadratic equation $8x^2 - 10x = -9$? | SOL AII.3b Find the solutions to the quadratic equation. $x^2 + 12x - 27 = 0$? |
| Day Six: Unit 5 | SOL AII.3c Solve $\frac{1}{2q} + \frac{1}{3q} = 5$ if $q \neq 0$. | SOL AII.3c What is the value of x in the equation $\frac{5}{2x+2} = \frac{3}{x+3}$, $x \neq -1$ or $x \neq -3$? | SOL AII.3d If $\sqrt[3]{x} = 3$, what is the value of x ? |
| Day Seven: Unit 6 | SOL AII.4 What is the solution to the inequality $\frac{6}{x} > -3$? | SOL AII.4 What are the solutions to the following system of equations? $\begin{cases} y^2 = -x - 4 \\ 0 = -y^2 + x - 1 \end{cases}$ | SOL AII.4 What are the values of x in the solutions to the following system of equations? $\begin{cases} y + x^2 - 8 = 0 \\ y + x - 7 = 0 \end{cases}$ |
| Day Eight: Unit 7 | SOL AII.5 What are the next 2 numbers in the number pattern? 3, 7, 15, 31, ... | SOL AII.5 In a geometric sequence the ratio of any term divided by the term before it is always the same. 64, 16, 4, 1, $\frac{1}{4}$, ... What is the ratio in the geometric sequence shown above? | SOL AII.5 What is the sum of the following infinite geometric series, if it exists? 120 + 60 + 30 + 15 + ... |
| Day Nine: Unit 7 | SOL AII.5 Determine the summation formula for the arithmetic series. $3 + 7 + 11 + 15 + 19 + 23 + 27$ | SOL AII.5 What is the missing term in the geometric sequence? $\frac{3}{4}, \frac{1}{2}, \frac{1}{3}, ?, \frac{4}{27}, \frac{8}{81}$ | SOL AII.5 The first three terms of an arithmetic sequence are $x - 1$, $3x - 2$, and $5x - 3$. Write an expression which represents the 15th term in the arithmetic sequence? |
| Day Ten: Unit 8 | SOL AII.6b Which graph represents the function $f(x) = -x^3 + 1$? | SOL AII.6a The function $f(x) = \left \frac{1}{2}x \right + 2$ is symmetric with respect to the y -axis. Write the equation $f(x)$ after it is reflected about the line $y = 2$ to create $g(x)$? | SOL AII.6b Write an the equation which represents the image of $y = x^2$ under a 90° clockwise rotation? |

EMERGENCY CLOSING LEARNING PLAN
ALGEBRA II
~~TEXTBOOK LOGIN INFORMATION~~

RESOURCES
ACTIVITES TO CONSIDER

~~Big Ideas Online Resources~~
~~[Access through Clever](#)~~

Khan Academy
[khanacademy.org](https://www.khanacademy.org)

~~Textbook~~