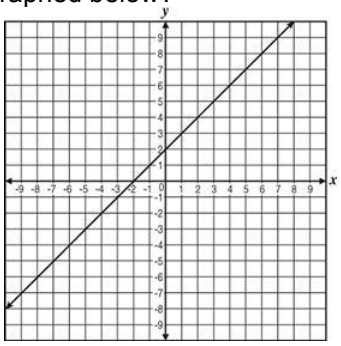
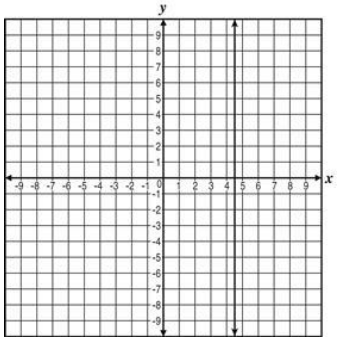
Algebra I Instructional Support

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 A.3b A student claims that $\sqrt[3]{80}$ is in simplest radical form. Are they correct? Explain why or why not.	SOL A.1a Rob had 3 less than twice as many problems for homework on Tuesday than on Monday. If *m* represents the number of homework problems on Monday, write an expression that represents the number of homework problems Rob had on Tuesday?	SOL A.1b Evaluate $3(a^3 + b^2)$ for $a = 2, \quad b = 4$.
Day Two: Unit 2	SOL A.4a What value of *p* will make the equation $\frac{4p}{4} - \frac{2p}{3} = 10$ true?	SOL A.4c Solve the equation for *k*. $h = \frac{4}{k} + n$	SOL A.4e A plumber uses the equation $c = 35h + 70$ to determine the total amount of money charged for a service call, where *h* represents the number of hours worked and 70 represents a one-time fee. Based on this equation, how much should she charge for working 1.5 hours on a service call when no parts are required?
Day Three: Unit 3	SOL A.5a What is the solution for *n* in the inequality? $-17 + 3n \leq 7(n - 2)$	SOL A.5a For which values of *x* is the inequality $2x + 19 \geq 3x - 19$ true?	SOL A.5c Gabriel needs to purchase AT LEAST 30 party decorations. The Party Palace charges \$0.50 per decorative streamer and \$0.25 per balloon, including tax. Which combination of streamers and balloons can Gabriel purchase with \$12.50 at the Party Palace?
Day Four: Unit 4	SOL A.7a The sets of ordered pairs below represent relations. I {(0, 0), (1, 1), (2, 2)} II {(1, 2), (2, 1), (1, 3)} III {(0, 2), (3, 4), (3, 6)} IV {(1, 6), (2, 6), (3, 6)} Which of these sets are also functions?	SOL A.7b What is the range of the quadratic function $y = 5(x - 4)^2$?	SOL A.7c Write the equation of a quadratic function with real solutions of 7, and -8.

Day Five: Unit 4	SOL A.7d Given the equation $-2x + 3y = 18$, what are the *x*-intercept and *y*-intercept of the graph?	SOL A.7e If $f(x) = 3x - 4$, what is $f\left(\frac{2}{3}\right)$?	SOL A.7f A photocopier tray is filled with 500 sheets of paper. Photocopies are then made for the next 2 minutes. Which term BEST describes the slope of a line graph representing the sheets of paper remaining in the tray?
Day Six: Unit 5	SOL A.6a What is the slope of a line that contains the ordered pairs $(2, 6)$ and $(3, 9)$?	SOL A.6c Which point is on the graph of $y = 2x + 5$ in the coordinate plane?	SOL A.5a Use a graphing utility to determine which values of n is the inequality $n + 8 > -8 - n + 18$ true?
Day Seven: Unit 5	SOL A.5b Graph the solution set for the following inequality? $2x - y < 2$	SOL A.5c Write a real-world problem that corresponds to the inequality below. 16x + 40 ≤ 120	SOL A.5d Graph the solution to the system of inequalities below? $\begin{cases} y \leq 2x + 7 \\ y \leq -x - 2 \end{cases}$
Day Eight: Unit 6	SOL A.6b What is the equation of the line graphed below? 	SOL A.6b Which equation is represented by the graph below? 	SOL A.6b Which equation represents the line that passes through the points $(3, 7)$ and $(-1, -1)$?
Day Nine: Unit 6	SOL A.6b What is the equation of the line that contains point $(3, -2)$ and has a slope of 5?	SOL A.6b Which equation has a slope of -1 and an *x*-intercept of 2?	SOL A.9 If *p* represents the world population in billions and *y* represents the number of years after 1960, then the world population after 1960 can be closely approximated by the equation $p = 0.077y + 3.04$. Which number most closely approximates the predicted population of the world, in billions, in the year 2015?
Day Ten: Unit 7	SOL A.8 Describe the graph representing a direct variation?	SOL A.8 Write a real word situation which describes a direct variation.	SOL A.8 The number of possible string sections (*s*) to be cut from a 4-inch piece of string varies inversely with the length (*l*) of each of these string sections. Write an equation which models this relationship?

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