

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
<h1 style="text-align: center;">JANUARY 2016 ALGEBRA 2</h1> <ul style="list-style-type: none"> <li>Remember that if the answer you get is different from the date... <b>you need to try the problem again!</b></li> <li><b>Do not</b> leave any question blank. If you don't know how to solve it... <b>ask for help!</b></li> <li><b>Show all your work!</b> The process is more important than the answer.</li> </ul>				1	2	3
				Find the greatest element of the range of the function $f(x) = -x^2 + 1$ .	Find the greatest element of the domain of the function of the function $f(x) = \sqrt{-x + 2}$ .	Two trains leave a station at the same time. One train travels east at 50 mph. The other travels west at 55 mph. After how many hours will the trains be 315 miles apart?
4	5	6	7	8	9	10
Simplify $\frac{(x^3)^2}{x^2}$	Simplify $\sqrt{125}$	Solve for $x$ . $11(-2x + 8) = 7(-5x + 26) - 16$	What is the slope of a line parallel to the line through $(-1, 4)$ and $(0, 11)$ ?	Solve for $x$ . $\frac{x + 1}{9} = \frac{2x - 9}{7}$	What is the slope of a line perpendicular to the line through $(-9, -9)$ and $(18, -12)$ .	Write the equation of a parabola whose vertex is at $(-10, 10)$ .
11	12	13	14	15	16	17
Simplify $\frac{(x^{-3}y^4)^2}{x^5y^{-3}z^0}$	Draw a function with a range of $-12 \leq x < 12$ and write the range in interval notation.	Draw a function with a domain of $-13 < x \leq 13$ and write the domain in interval notation.	An object is launched at 19.6 m/s from a height of 58.8 m. Let $s(t) = -4.9t^2 + 19.6t + 58.8$ describe the object's height, $s$ , at $t$ seconds. How high is it after 5.625 seconds?	Write the equation of a cubic function that has been shifted left 1 and up 5.	Simplify $\frac{8\sqrt{8}}{\sqrt{2}}$	A number is doubled and then increased by 42. The result is 76. What is the number?
18	19	20	21	22	23	24
Find the y-intercept of the line through $(1, 21)$ and parallel to the line through the points $(5, 18)$ and $(6, 21)$ .	Find the y-intercept of the line through $(2, 16)$ and perpendicular to the line through the points $(6, 21)$ and $(-3, 15)$ .	If Alice sells 3 phone packages, she earns \$35. If she sells 8, she makes \$60. How much money does Alice make if she sells 0?	Bob is a waiter. He makes \$9.32 per hour, plus tips, which average \$8.80 per table. One day, Bob worked 10 hours and made \$278. How many tables did Bob serve?	Find the y-intercept of the line through $(4, 26)$ and parallel to $y = x + 9$ .	Find the equation of the line through $(2, 19)$ and perpendicular to $y = \frac{1}{2}x - 8$ .	Write in interval notation: $2 < x \leq 4$
25	26	27	28	29	30	31
Simplify $\frac{4\sqrt{15}}{\sqrt{12}}$	Simplify $\frac{(x^{-1}y^3)^{-4}}{x^2y^{-18}}$	Let $f(x) = 5x^3 - 3x^2 + 18x - 10.125$ . Find $f(1.5)$ .	A rectangle has side lengths 9 and $\sqrt{703}$ . What is the distance from the bottom-left corner to the top-right corner of the rectangle?	A company charges \$58 for one hour & \$87 for two hours. Write an equation representing the cost, $y$ , of renting a car for $x$ hours.	Let $f(x) = 6x - 18$ and $g(x) = 4x^2 + 5x - 1$ . Find $-2f(5) + 2g(2) + 4$ .	Find the y-intercept of the line through $(5, 35)$ and parallel to the line through the points $(4, 29)$ and $(9, 33)$ .