

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<h1>MARCH</h1> <h1>2016</h1>		1 Find the value of z in the system below.	2 Find the value of y in the system below.	3 Find the value of x in the system below.	4 Solve for x .	5 Find the y coordinate of the solution to the system below. $\begin{cases} 5x - 3y = 7 \\ 6x - 5y = 0 \end{cases}$
		$\begin{cases} 6x - 4y - 5z = 5 \\ -3x - 5y + 3z = -16 \\ 2x - 6y + z = -5 \end{cases}$			$x^2 - 8x + 30 = -2$	
6 Simplify $3\sqrt{54} - 3\sqrt{6}$	7 Find the maximum or minimum of the parabola represented by $y = \frac{1}{3}x^2 - 4x + 19$.	8 Find the axis of symmetry of the parabola represented by $f(x) = x^2 - 16x + 61$.	9 Let $f(x) = x^5 - 14x^4 + 22x^3 + 13x^2 + 141x - 99$. Use synthetic substitution to find $f(12)$.	10 Find the zeroes of $f(x) = x^3 - 10x^2 + 4x - 40$. What is the only real zero?	11 Find the y -intercept of the line through $(-5, -4)$ and perpendicular to the line represented by $y = -\frac{1}{3}x + 3$.	12 Solve and write your answer in interval notation. $7 6x - 9 + 2 \leq 23$
13 Find the larger of the solutions to $-2 -x + 5 - 5 = -21$	14 Let $f(x) = -3x^4 + 8x^3 + x^2 + 14x - 10$. Use synthetic substitution to find $f(3)$.	15 Simplify $\frac{15\sqrt{75}}{\sqrt{5}}$	16 Find the y -intercept of the line through the point $(15, -4)$ and parallel to the line through the points $(14, 4)$ and $(20, 12)$.	17 Let $f(x) = 2x^2 - 4x + 9$ Write $f(x)$ in vertex form and state the vertex of the parabola.	18 Solve for x . The product of your solutions should be 18. $9 - 5 2x - 9 = -6$	19 Find the zeroes of $f(x) = x^4 - 82x^2 + 81$
20 Find the remainder when $50x^5 + 2052x^4 - 1916x^3 - 1646x^2 + 1638x - 104$ is divided by $50x - 48$	21 Factor $x^3 - 21x^2 + 21x - 441$	22 Solve for x . $x^2 - 44x = -484$	23 Solve and graph. $21(x - 36) \leq 39(x - 30)$	24 Find the y -intercept of the line \perp to \overline{AB} & through its midpoint. A has coordinates $(2, 3)$ & B has coordinates $(11, 6)$.	25 Solve for x . $4x^2 - 80 = 0$	26 Simplify $\frac{13 \cdot 2^{-1}x^3y^{-2}}{x^{-3} \cdot 2xy^4 \cdot (2x^{-1}y^4)^{-3}}$
27 Simplify $\frac{4\sqrt{14}}{\sqrt{8}}$	28 Simplify and find the sum of the exponents. $(x^2y^4)^4 \cdot xy^3$	29 Find the x -intercept of the line represented by the equation $y = -\frac{3}{4}x + 18.75$	30 Find the zeroes of $f(x) = x^3 - 31x^2 + 28x + 60$. What is the largest zero?	31 Solve for x . The difference between your solutions should be 31. $x^2 - 71x = -1020$	<h1>ALGEBRA 2</h1> <ul style="list-style-type: none"> Do not leave any question blank. If you don't know how to solve it... ask for help! Show all your work! The process is more important than the answer. 	