Using Points to Graph a Quadratic Answer Key

1.	What is the <i>y</i> -intercept?	What is the <i>x</i> -value of the vertex?	What is/are the <i>x</i> -values of the <i>x</i> -intercept(s)?	(-4, 9)
	(0, -7)	x = -4	x = -7 & x = -1	(-7, 0) (-1, 0)
	c = -7	$_{sign}^{opp} of \ b = \underline{+8}$		
		$2(a) = 2(-1) = \underline{-2}$		(-8, -7) • (0, -7)
2.	What is the <i>y</i> -intercept?	What is the <i>x</i> -value of the vertex?	What is/are the <i>x</i> -values of the <i>x</i> -intercept(s)?	(-2, 0) (4, 0)
	(0, -8)	$x = \underline{1}$	$x = \underline{-2} \& x = \underline{4}$	-5 0 5
		$_{sign}^{opp}$ of $h = \pm 1$		(0, -8) -1 (1, -9) (2, -8)
~	X4X1			

3.	What is the <i>y</i> -intercept?	What is the <i>x</i> -value of the vertex?	What is/are the <i>x</i> -values of the <i>x</i> -intercept(s)?	-(-6, 10)
	(0,10)	$x = \underline{-3}$	$x = \underline{-5} \& x = \underline{-1}$	(-5, 0) (-1, 0)
			$\sup_{sign}^{opp} of r_1 = -5$	-10
			$_{sign}^{opp}$ of $r_2 = -1$	(-3, -8)

4.	What is the <i>y</i> -intercept? $(0, -2)$	What is the <i>x</i> -value of the vertex? x = -1	What is/are the <i>x</i> -values of the <i>x</i> -intercept(s)? $x = -1 \frac{\& x = 1}{\& x = 1}$	(-1, 0)
		$\frac{opp}{sign} of h = -1$		(-2, -2) (0, -2) (-3, -8) (1, -8)

5.	What is the <i>y</i> -intercept? $(0, -9)$	What is the <i>x</i> -value of the vertex? $x = \underline{2}$	What is/are the <i>x</i> -values of the <i>x</i> -intercept(s)? $x = \underline{1} \& x = \underline{3}$	(2, 3)
			$\frac{opp}{sign} of r_1 = \underline{+1}$	(1, 0) $(3, 0)(0, -9)$ $(4, -9)$
			$_{sign}^{opp}$ of $r_2 = \pm 3$	-10

6.	What is the y- intercept? (0,0)	What is the <i>x</i> -value of the vertex? $x = \underline{1}$	What is/are the <i>x</i> -values of the <i>x</i> -intercept(s)? $x = \underline{0} \& x = \underline{2}$	(-1, 9) (3, 9)
	$c = \underline{+0}$	$\sup_{sign}^{opp} of \ b = \underline{+6}$		$(0,0)^{1}$ $(2,0)^{10}$ $(1,-3)^{10}$
		2(a) = 2(3) = 6		(1, -3)

Using the Middle x to Graph a Quadratic Answer Key

1. The middle <i>x</i> is $x = 2$	3. The middle <i>x</i> is $x = 1$	5. The middle <i>x</i> is $x = -4$
2. The middle <i>x</i> is $x = -1$	4. The middle <i>x</i> is $x = -3$	6. The middle <i>x</i> is $x = 1$

