Characteristic	$y=-2(x-1)^2-4$	$y=2(x+5)^2-1$	$y=4(x-5)^2+3$	$y=-\frac{1}{2}(x-6)^2-4$	$y=5(x+3)^2-2$
1. Value of "a"	-2	2	4	1/2	5
2. Value of "p"	1	-5	5	6	-3
3. Value of "q"	-4	-1	3	-4	-2
4. Curve wider, normal narrower than $y=x^2$	narrow	narrow	narrow	wider	narrow
5. Direction of opening	down	up	up	down	up
6. Coordinates of the vertex	(1, -4)	(-5, -1)	(5, 3)	(6, -4)	(-3, -2)
7. Equation of axis of symmetry	$x=1$	$x=-5$	$x=5$	$x=6$	$x=-3$
8. Domain of the function	$x\in\mathbb{R}$	$x\in\mathbb{R}$	$x\in\mathbb{R}$	$x\in\mathbb{R}$	$x\in\mathbb{R}$
9. Range of the function	$y\le -4$	$y\ge -1$	$y\ge 3$	$y\le -4$	$y\ge -2$
10. Does the curve have a maximum or minimum value?	max	min	min	max	min
11. What is the maximum or minimum value?	$y=-4$	$y=-1$	$y=3$	$y=-4$	$y=2$
12. Table of Values	X: -1, 0, 1, 2, 3 Y: -12, -6, -4, -6, -12	X: -11, -10, -5, 0, 1 Y: 71, 49, -1, 49, 71	X: -1, 0, 5, 10, 11 Y: 147, 103, 3, 103, 147	X: -2, 0, 6, 12, 14 Y: -36, -22, -4, -22, -36	X: -7, -6, -3, 0, 1 Y: 78, 43, -2, 43, 78
13. Sketch the graph