Graph	Equation	x-intercept(s)	Line of Symmetry	Min/Max	Drawing	Expanded	y-intercept
1	$y=x(x+4)$	0, -4	$x=-2$	$(-2,-4)$	x | x^2 | $4x$; $x+4$	x^2+4x	0
2	$y=x(4-x)$	0, 4	$x=2$	$(2,4)$	x | $4-x$	$4x-x^2$	0
3	$y=x^2$	0	$x=0$	$(0,0)$	x | x^2 ; x	x^2	0
4	$y=(x+2)(x+3)$	$(-3,0)$ $(-2,0)$	$x=-2.5$	$(-2.5,-.25)$	x | x^2 | $3x$; $+2$ | $2x$ | 6 ; $x+3$	x^2+5x+6	6
5	$y=2x(x+4)$	0, 4	$-2=x$	$(-2,-8)$	x | x^2 | $4x$; x | x^2 | $4x$; x 4	$y=2x^2+8x$	0
6	$y=(x+3)(x+3)$	-3	$x=-3$	$(-3,0)$	x | x^2 | $3x$; $+3$ | $3x$ | 9 ; x 3	x^2+6x+9	0
7	$y=(x-3)(x+3)$	3 and -3	$x=0$	$(0,-9)$	x | $x+3$; -3 | x^2 | $3x$; 3 | $3x$ | -9	x^2-9	-9
8	$x(x-4)$	0, 4	$x=2$	$(2,-4)$	x | x^2 | $-4x$; $x-4$	x^2-4x	0