

Vertex Form

1 $y = (x + 3)^2$	2 $y = 2(x + 4)^2 - 1$	3 $y = -(x - 1)^2 + 2$	4 $y = \frac{1}{2}(x - 8)^2$
5 $y = -3(x + 2)^2 - 8$	6 $y = (x - 6)^2 - 5$	7 $y = 2(x + 5)^2 - 1$	8 $y = -3(x + 4)^2 + 1$
9 $y = (x + 1)^2 + 6$	10 $y = (x + 3)^2 - 6$	11 $y = -3(x - 4)^2 + 3$	12 $y = -(x - 5)^2 - 3$
13 $y = \frac{1}{2}(x - 7)^2$	14 $y = -(x - 4)^2 + 2$	15 $y = 2(x + 5)^2 + 1$	16 $y = (x + 8)^2 - 6$

Standard Form

a. $2x^2 + 16x + 31$	b. $x^2 + 16x + 58$	c. $-x^2 + 8x - 14$	d. $x^2 + 2x + 7$
e. $x^2 - 12x + 31$	f. $2x^2 + 20x + 51$	g. $x^2 + 6x + 4$	h. $\frac{1}{2}x^2 - 7x + 245$
i. $-3x^2 + 24x - 45$	j. $-x^2 + 2x + 1$	k. $-x^2 + 10x - 28$	l. $-3x^2 - 24x - 47$
m. $2x^2 + 20x + 44$	n. $-3x^2 - 12x - 20$	o. $x^2 + 6x + 3$	p. $\frac{1}{2}x^2 - 8x + 32$