Graphing $y = Ax^2 + C$

A opens and closes graph	
$A > 1$	closes graph
$A < 1$	opens graph
A is negative	flips upside down

C is the y-intercept	
$C > 0$	shifts vertex up
$C < 0$	shifts vertex down
C=0	through origin

Graph each label vertex and min/max

Ex1) $y = 2x^2$

Ex2) $y = -3x^2$

Ex3) $y = x^2 + 2$

Ex4) $-2x^2 - 3$

Ex5) $y = \frac{1}{2}x^2 + 2$