Trig/Precal Ch 1

Graphing Quadratic and Absolute Value Functions

Graph the following functions on a sheet of graph paper. Each function should have its own graph. Find and label the vertex, y intercept, and x intercepts.

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