Algebra 2 Chapter 5 / Quadratics Unit Review

 What are the two forms for quadratic equations that we studied?
Standard form, which looks like $y = f(x) = ax^2 + bx + c$
Vertex form, which looks like $y = f(x) = \alpha(x-h)^2 + k$
We saw a 3 rd form in homework this week. It looked like $y = (2x + 1)(x - 10)$.
What is this form called? <u>factored form</u>
2. What is the name of the maximum or minimum point on a parabola? <u>Vertex</u>
3. How do you know if it is a max or min without actually graphing it? Look at a
If at, vertexisa min; Ifa-, vertexisa max
4. How do you find the equation of the line of symmetry (LOS) (or AOS) for each form of eqn?
Standard: Find Los by plugging into X= -b/za
Vertex: Find Los W/h X=h
5. How do you find the vertex for each form of the equation?
Standard: After finding the LOS, plug that back into
original egn to gety.
Vertex: The vertex is (h, k) from the eqn
6. How do you find the y-intercept for each form of the equation?
Standard: It's (o,c) (c from ax2+bx+c)
Vertex: Set x = 0 and solve for y-
1+'t1 be (0,#)
, A
7. We learned 5 methods for solving quadratic equations. List them below.
1) Factoring
2) 5
3) Quadratic Formula
3) Quadratic Formula 4) Completing the Square 5) Graphing
5) Graphing