**Unit 2 - Quadratics Review Sheet #2**

1. Factor completely.
2. Solve
3. Solve for all values of x in simplest radical form by completing the square:
4. Solve for all values of *x*:
5. Solve for all values of *x*:
6. Given the quadratic equation ,
   1. For what integer values of *a* will the equation have real roots?
   2. For what integer values of *a* will the equation have imaginary roots?
7. If the roots of a quadratic equation are and , write the equation in form.
8. Write the equation of the parabola in standard form whose focus is (3, 2) and whose directrix is y = -1.
9. Write the following quadratic equation in vertex form: