FORMATTING: This is semi-formal writing, here. That means show some professionalism. You don’t have to type it out, but you do need to be very clear. **Staple this page, with your name on it, as a cover sheet for your project. Do not staple your project to your test.**

1. Write on only one side of each page. I will not award (or deduct) points for anything on the backs of pages.
2. Plain white paper without lines (8 ½ x 11-inch A4 copier paper works just fine).
3. Staple top left corner.
4. Leave margins. "MAT 121" in big letters in top left corner of every page solves all problems with margins.
5. Write DARK. I don't mind if you use pen. Just put a line through mistakes. Pencil's good, but make sure you're getting it DARK.
6. Leave ROOM between problems and between steps on your work. I have bad eyes, so being stingy with space and paper is a mistake on Writing Projects. **Don't do work in 2 columns!**
7. Type up the last question on a wordprocessor.
8. Do Not Send Me GIFs or JPEGs of your work. If you can’t make a PDF, then don’t bother submitting it electronically. I can’t process your image very efficiently.

#s 1 – 3 Find all real or non-real solutions of the following quadratic equations using the quadratic formula. Be sure to *compute the discriminant, first, and separately*. I'm looking for that on tests, as well, *whenever* you face a quadratic expression. It modularizes the work, and it tells you what you're getting into.

1. (5 pts) 
2. (5 pts)  (Round your final answer to 4 decimal places.)

BONUS: (5 pts) Give an *exact* answer for #2, in simplified radical form, and NO DECIMALS.

1. (5 pts)  (Give an exact answer, in simplified radical form.
2. (5 pts)  (Solve for *x*. Your answers will have letters in them. That's OK!)

#s 5, 6 Solve the following by factoring. You may use a sledgehammer, if you wish, but write the polynomial in factored form, after you find the solutions, to show you understand the connection between factors and solutions, frontwards and backwards! Give answers as integers or fractions, in lowest terms.

1. (5 pts) 
2. (5 pts) 

#s 7 – 10 Solve the following by completing the square. **Do not use decimals**; rather, use *fractions*, as needed, to complete the square. So for #7, I want to see added to the left-hand side (lhs) and  added to the right-hand side (rhs). The messy part is the  on the rhs, and there's no ducking it. Final Answers in Simplified Radical Form.

1. (5 pts) 
2. (5 pts) 
3. (5 pts) 
4. (5 pts) 