Math 42 Test Corrections

For indicated tests you will be required to perform a set of test corrections. For this assignment you will be able to earn up to half of your lost points back towards your grade.

To complete your corrections you must do the following for each problem marked incorrect:

- **Give a written explanation (specific and mathematical in nature) as to what your error was.**
- **Complete the (*entire*) problem correctly.**

You must complete both parts correctly to earn points for a particular problem.

If you do not turn in a set of corrections on time you will lose an additional ten points off of your original score. Corrections are due at the beginning of class of the due date and will not be accepted late. Incomplete corrections will not earn any points.

INSTRUCTIONS:

- ⇒ **Corrections must be done on paper separate from the test.** That way I can compare your original work to your corrections.
- ⇒ **Do the problems in order.**
- ⇒ **Do all of the problems you lost points on.** This assignment needs to be COMPLETE. You are given plenty of time to get help on any and all of the problems.
- ⇒ **You need to explain something for problems you didn't do at all.** Even if it is "I didn't have time" or "I had no idea how to start this problem" you need to put something. Note that the two examples I gave above should be used as sparingly as possible. Their overuse will not be tolerated.

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EXAMPLE: Let's say the work in the box below was on a test.

Solve $x^3 - 2x^2 + 9x - 18 = 0$.

$$x^3 - 2x^2 + 9x - 18 = 0$$
$$x^2(x-2) + 9(x-2) = 0$$
$$\left(x^2+9\right)(x-2) = 0$$
$$(x+3)(x-3)(x-2) = 0$$
$$x = 3,\ x = -3,\ x = 2$$

The correction would look as follows on a separate piece of paper.

In this problem I factored $x^2 + 9$ incorrectly. I factored it into (x+3)(x-3) which is equal to $x^2 - 9$, not $x^2 + 9$. The problem should look like as follows:

$$x^3 - 2x^2 + 9x - 18 = 0$$
$$x^2(x-2) + 9(x-2) = 0$$
$$\left(x^2+9\right)(x-2) = 0$$
$$x^2 + 9 = 0 \ \text{or} \ x - 2 = 0$$
$$x^2 = -9 \ \text{or} \ x = 2$$
$$x = \pm 3i \ \text{or} \ x = 2$$

SCORING:

- **You need to have your explanation and your problem correct to receive points for a problem.**
- **Late corrections will not be accepted.**
- **Failure to turn a set of correction in will result in an additional letter grade off of your exam.** This assignment is not designed solely to give you an opportunity to improve your test score. It is also to improve your ability to analyze work and communicate effectively using the language of mathematics.