Monday

Convert from Standard Form to Vertex form. Write each step out using words.

$$f(x) = -3x^2 - 6x + 1$$

Tuesday

Find the remainder when $f(x) = 2x^5 - x^3 + 17x^2 - 8$ is divided by (x + 5). Write out an explanation of your method.

Wednesday

Write the equation for a circle whose center is (-3,1) and radius measures 5 *inches*. Write out the method you used to derive the equation.

Thursday

Solve this system of quadratic inequalities. Write an explanation of your method.{Be sure to graph each parabola and shade the appropriate region}

$$y \le 2x^2 - 9x + 8$$

$$y > -x^2 - 6x - 4$$

Friday

Write a polynomial function with the following zeros:

$$4,-\frac{1}{2},5+i$$