

Math 8
Winter 2020

Written Homework
Assigned Monday, February 24

Note: Standard (not preliminary) written homework is graded on your work and your explanations, not just on your answer.

Explanations are important for many reasons. Being able to communicate what you know shows a depth of understanding beyond that of being able to get the right answer to a problem. Doing the mental work of putting explanations into words helps create that depth of understanding. On exams, we will grade your work and not just your answers, so this is good practice for taking exams.

For all these reasons, be sure to: show all your work; explain your reasoning; use clear English; write neatly so all this effort does not go to waste.

Written homework is always due at 10:00 AM on the following Monday. It must be submitted electronically, and then you must bring a hard copy to class. Please see the general information on the course web page.

Assignment: Find a point on the paraboloid $z = x^2 + y^2$ at which the tangent plane is parallel to the plane with equation

$$2x - 6y + z = 5.$$

Give the equation of that tangent plane.