**Instructions:** Show all work, with clear logical steps. No work or hard-to-follow work will lose points.

**Problem 1.** (4 points) You have 556 feet of fencing to enclose a rectangular plot of land. Find the dimensions of the rectangular plot that would maximize the area.

**Problem 2.** (0 points) If you were Mitch Daniels for a day, what would be your first action?