Math-3A HW #13-12 Area of Rectangles

Date

1. A farmer has 300 feet of fence. He wants to construct a rectangular corral for his horses. He wants the area of the enclosed space to be 700 square feet. What is the length and width of the enclosure?

A farmer has 300 feet of fence. He wants to construct a rectangular corral for his horses.
Fortunately, he can use a river at the boundary of his property to be one boundary for his corral.
He wants his corral to have a total area of 1000 square feet. What is the length and width of the corral?

3. What would be the length and width of the corral for problem #2 to have the maximum possible enclosed area? What is the maximum area?

Name