

Fence Problem. A farmer wants to enclose a paddock between his barn and a road, as shown in the diagram. The barn is 100 feet long, and the road is 200 feet from the barn. The farmer has 240 feet of livestock wire mesh available, to enclose three sides of the paddock. No fence will be needed along the side of the barn. Assuming that all of the fencing will be used, what dimensions will provide a paddock with the greatest area?

