Some thieves know that a farmer has buried some money in a field. The field—let's call it ABCD—is square, with sides 500 m long. The thieves do not know the exact spot where the money lies buried but they do have the following information: it is buried not more than 200 m from side AB and within 500 m of A. At the same time it is closer to D than to B. Draw a sketch to show the area in which you would dig if you were one of the thieves.