# Optimization Problems

2. A rectangular field is bounded by a fence on 3 sides and a straight stream on the fourth side. Find the dimensions of the field with the maximum area that can be enclosed with 1000 feet of fence.

$x$ = width
$y$ = length

$2x + y = 1000$

$A = x\,y$

$y = 1000 - 2x$

$A = x(1000 - 2x)$

$A = 1000x - 2x^2$

$\dfrac{dp}{dx} = 1000 - 4x$

$0 = 1000 - 4x$

$x = 250\ ft$

$\dfrac{d^2 p}{dx^2} = -4 < 0$

$x$

$100 - 2x$

$x$

Since the second derivative is negative at a critical point, 250 ft x 500 ft will be the maximum area.

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DJ Losen

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