50. Answers:

$Px = 10 - 0.002x$
$Py = 6.4 - 0.05y$

$Px(100,16) = \$9.80$ (If you increase the number of pounds of Kisses by one pound, the profit will increase by \$9.80)

$Py(100,16) = \$5.60$ (If you increase the number of pounds of Kremes by one pound, the profit will increase by \$5.60).

What is the maximum profit?

$P(5000,128) = \$25,409.60$ is the maximum profit.