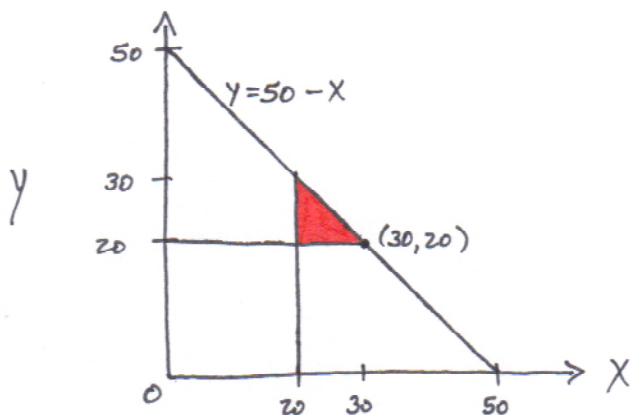


Problem 89

$$f(x, y) = \frac{6}{125,000} (50 - x - y) \quad 0 < x < 50 - y < 50$$

P(both components are still functioning 20 months from now)

- $f(x, y)$ defined on:
- I) $x > 0$
 - II) $y < 50 - x$
 - III) $y > 0$



$$\frac{6}{125,000} \int_{20}^{30} \int_{20}^{50-x} (50 - x - y) \cdot dy \cdot dx$$

B