$$P(x,y)$$

$$D: y = 4x^{2} \quad x = 0 \quad x = 1 \quad y = -2x$$

$$P(x,y) - 4x + y$$

$$S = \int_{0}^{1} (4x^{2} + 2x) dx = \int_{0}^{1} 4x^{2} dx + 2\int_{0}^{1} x dx = (\frac{4}{3}x^{2} + \frac{2}{2}x^{2}) = \frac{10}{3}$$

$$P(x,y) \cdot (4x + y) = 4x - 2x = 5x = 5$$

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