

$$\sim 12. \quad \begin{cases} y = 3x^2 + x - 4 \\ y = 7x + 5 \end{cases}$$

$$3x^2 + x - 4 = 7x + 5$$

$$3x^2 - 6x - 9 = 0$$

$$x^2 - 2x - 3 = 0$$

$$\begin{cases} x = -1 \\ x = 3 \end{cases}$$

$$S = \int_{x_1}^{x_2} (7x + 5 - 3x^2 - x + 4) dx = \int_{-1}^3 (-3x^2 + 6x + 9) dx =$$

$$= -x^3 + 3x^2 + 9x \Big|_{-1}^3 = 32$$

Orber: 32.