

Prova

1-

$$y = x^2 - 7x + 10$$

$$= \int_6^7 x^2 dx - \int_6^7 7x dx + \int_6^7 10 dx$$

$$\int_6^7 x^2 dx = \frac{127}{3} \quad \int_6^7 7x dx = \frac{91}{2} \quad \int_6^7 10 dx = 10$$

$$= \frac{127}{3} - \frac{91}{2} + 10 = \frac{41}{6}$$

2-

$$2) y_1 = \frac{12}{x}$$

$$\int_3^{12} x \cdot 1 dx = \frac{135}{2} \quad \left[ \frac{x^2}{2} \right]_3^{12} = \frac{135}{2}$$

$$b) y_2 = 2^x + x = \int_3^{12} x \cdot 2 dx \quad \left[ \frac{x^2}{2} \right]_3^{12} = \frac{135}{2}$$

$$= 2 \cdot \frac{135}{2} = \underline{\underline{135}}$$