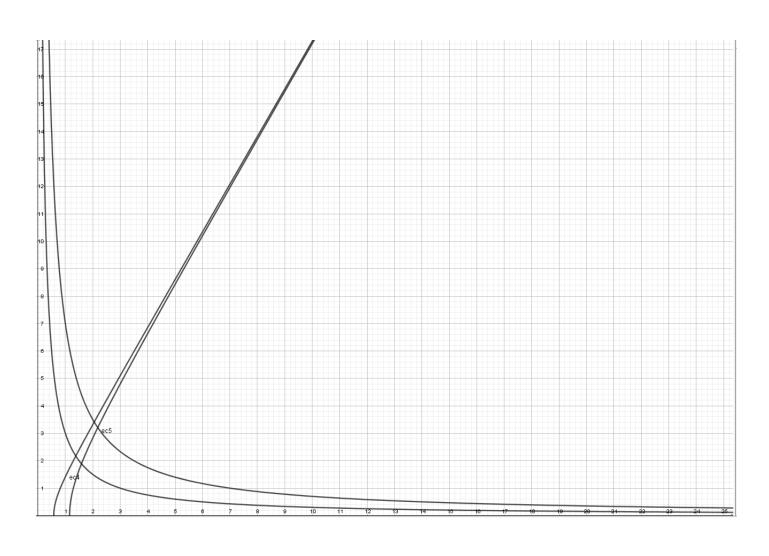
## **Grafica de Region R**



$$\int_{R} \int (3x^{2} + y^{2}) e^{5xy} dx dy$$

$$R = \{ (x,y) \in \mathbb{R}^{2} / xy = 3 \ ) x y = 7 \} 3x^{2} - y^{2} = 1 \} 3x^{2} - y^{2} = 4 \}$$

$$C_{0} = \begin{cases} e^{1} \text{ primes} & \text{condende} \end{cases}$$

$$y = 3x^{2} - y^{2}$$

$$y = 3x^{2} - y^{2} = 4 \}$$

$$y = 3x^{2} -$$

$$\int_{1}^{4} \int_{3}^{\frac{1}{2}} (3x^{2}+y^{2}) e^{-x} |5(v,v)| du dv$$

$$\int_{1}^{4} \int_{3}^{\frac{1}{2}} (3x^{2}+y^{2}) e^{-x} |\frac{1}{-2(3x^{2}+y^{2})}| du dv$$

$$\int_{1}^{4} \int_{3}^{\frac{1}{2}} \frac{1}{2} e^{5xy} du dv$$

$$\int_{1}^{4} \int_{3}^{4} \frac{1}{2} e^{5xy} du dv$$

$$\int_{1}^{4} \frac{1}{2} e^{5xy} du dv$$