(1) CIM X3

 $= \frac{\text{Cim}}{\text{L}} \frac{3x^2}{x \to \infty} = \frac{\text{Lim}}{2xe^{x^2}} \frac{6x}{\text{L}} \frac{6x}{x \to \infty}$ 

= 12m 6 1 x > 00 4xex; + 8xex; + 8x3ex; = 0

(8) 
$$\int_{0}^{3} \frac{1}{(x-5)(x-1)} = \int_{0}^{3} \frac{1}{4(x-5)} - \frac{1}{4(x-1)}$$

$$= \int_{1}^{1} \frac{1}{4(X-5)} + \int_{1}^{3} \frac{1}{4(X-5)} - \frac{1}{4(X-1)}$$