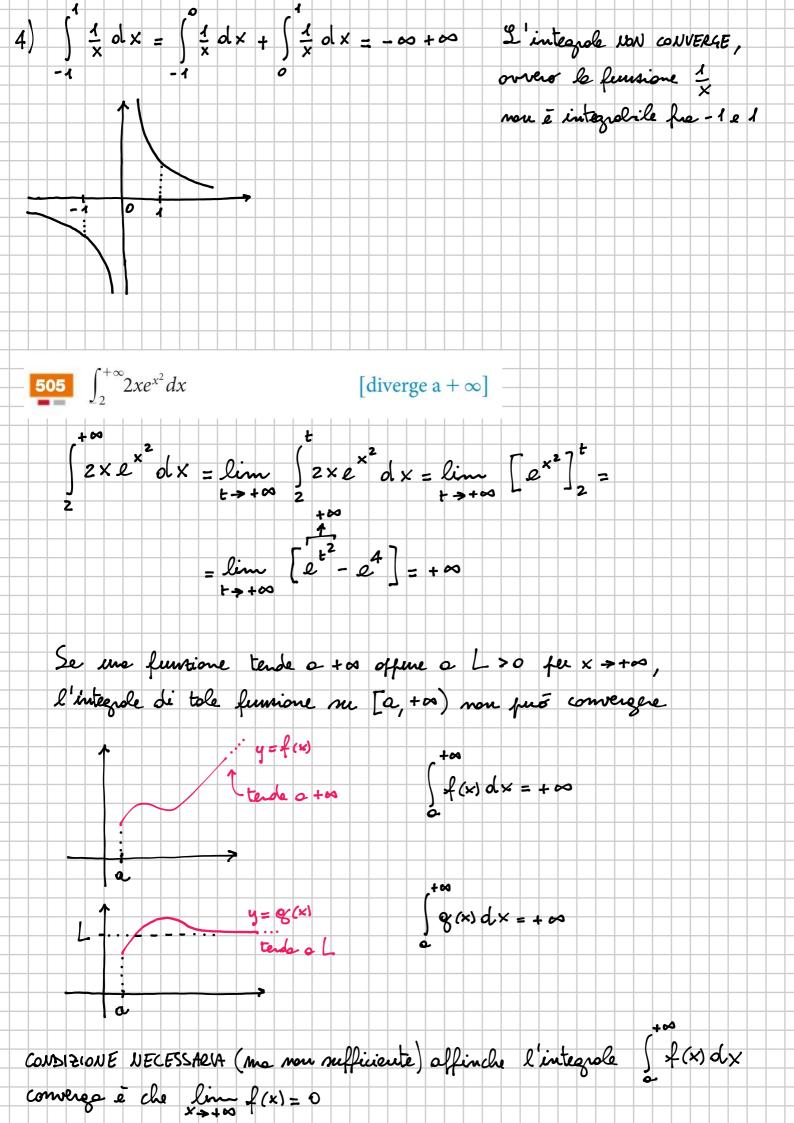
INTEGRALI IMPROPELI

1) 
$$\int_{1}^{1} dx = \lim_{t \to +\infty} \left[ \int_{1}^{t} dx + \lim_{t \to +\infty} \left[ \int_{1}^{t} dx + \int_{1}^{t} dx$$



$$\int_{-\infty}^{1} \frac{1}{x^{2}-3x} dx = \lim_{t \to -\infty} \int_{t}^{-1} \frac{1}{x^{2}-3x} dx = (x + 1)$$

$$\int_{-\infty}^{1} \frac{1}{x^{2}-3x} dx = \int_{t \to -\infty}^{1} \int_{t}^{1} \frac{1}{3(x-3)} dx = -\frac{1}{3} \int_{x}^{1} dx + \frac{1}{3} \int_{x-3}^{1} dx = -\frac{1}{3}$$

$$\int_{x^{2}-3x}^{1} dx = \int_{x(x-3)}^{1} \frac{1}{3(x-3)} dx = -\frac{1}{3} \int_{x}^{1} dx + \frac{1}{3} \int_{x-3}^{1} dx = -\frac{1}{3}$$

$$\frac{1}{x^{2}-3x} = \frac{1}{x(x-3)} = \frac{1}{x} + \frac{1}{x-3} = \frac{1}{x(x-3)} + \frac{1}{3} + \frac{1$$