$$\int \frac{2x+3}{(x-2)(x+5)} = \int \frac{4x+5}{(x-2)(x+5)} = \int \frac{$$

$$\int e^{2x} \cos 3x \, dx$$

$$U = e^{2x} \, du = 2e^{2x} \, dx$$

$$dv = \cos 3x \, dx \quad v = \frac{1}{3} \sin 3x$$

$$e^{2x} \cdot \frac{1}{3} \sin 3x - \frac{2}{3} \int \sin 3x \cdot e^{2x} \, dx =$$

$$u = e^{2x} \quad du = 2e^{2x} \, dx$$

$$dv = 2\sin 3x \quad v = -\frac{1}{3}\cos 3x$$

$$= \frac{e^{2x} \sin 3x}{3} - \frac{e^{2x} \cos 3x}{3} + \frac{2}{3} \int \cos 3x \ e^{2x} dx$$

$$= \frac{e^{2x} \sin 3x}{3} - \frac{e^{2x} \cos 3x}{3} + \frac{2}{3} \int \cos 3x \ e^{2x} dx$$

$$= \frac{e^{2x} \sin 3x}{3} - \frac{e^{2x} \cos 3x}{3} + \frac{2}{3} \int \cos 3x \ e^{2x} dx$$

$$\int_{0}^{\ln 2} x \, e^{x} \, dx$$

$$\int_{0}^{\infty} x \, e^{x} \, dx$$

$$\int_{0}^{\infty} x \, dx = \int_{0}^{\infty} x \, dx$$

$$\int_{0}^{\infty} x \, dx = \int_{0}^{\infty} x \, dx = \int_{0}^{\infty} x \, dx = \int_{0}^{\infty} x \, dx$$

$$\int_{0}^{\infty} \frac{1}{(\ln x + 1)} + \int_{0}^{\infty} \frac{1}{(\ln x + 1)} = \frac{\ln x + 3}{2}$$

$$f \times 2 \le f(0) \times n$$

$$y=e^{x}$$
 $e^{x} + e^{x} + e^{x^{2}} = \frac{x^{n}}{n!}$