$$\int \frac{3x^4}{1 - x^5} \, dx \tag{1}$$

Does the following series converge?

$$\int \sec^2(x^7) \, 7x^6 \, dx \qquad (2)$$

$$\sum_{n=0}^{\infty} \frac{17}{3^n} \tag{4}$$

$$\int \left(1 - x^2\right) e^x \, dx \qquad (3)$$

$$\int (1-x^2) e^x dx$$
 (3) 
$$\int \frac{6x^5}{\sqrt{1-(x^6)^2}} dx$$
 (5)