Continuous assessment Test N° 1

Exercise: (./8pts) Calculate the following integrals:

1.

$$\int \cos(x)e^x dx$$

Indication: use the integration by parts.

2.

$$\int \frac{x^4 + 2x^2 - 1}{(x - 1)(x^2 + 1)} dx$$

Indication: use the decomposition of the fraction.

3.

$$\int \cos(x)\sin(2x)dx$$

Indication: use the trigonometric functions proprieties.

Good luck