Evalute the following definite integrals.

$$\int_1^3 e^x\,dx \qquad \int_0^\pi \cos x\,dx \qquad \int_{-1}^3 3x^2+2x-1\,dx$$

Find $F'(x)$ when $F(x)$ is given by the following integrals:

$$F(x)=\int_1^x e^t\,dt \qquad F(x)=\int_x^3 \cos t^2\,dt \qquad F(x)=\int_{-1}^{x^2} e^t\,dt$$

$$F(x)=\int_2^{\sqrt{x^2+1}} \sqrt{t-1}\,dt \qquad F(x)=\int_{-x}^{2x} \sin t\,dt$$

$$F(x)=\int_{x^2}^{\cos(e^x)} t^2+\cos(t)\,dt$$