Evaluate the integral:

(1) $\int x^2 e^{-x^3} dx$

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

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

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

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

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

(7) $\int (x-2)(x-3) dx$

(8) $\int \sin x \sqrt{1-\cos x} \, dx$

(9) $\int \tan x \, dx$

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

(11) $\int \ln x \, dx$

(12) $\int \cot x \, dx$

(13) $\int x \ln x \, dx$

(14) $\int x \cos x \, dx$

(15) $\int \tan^{-1}(x) dx$

(16) $\int \sin^{-1}(x) dx$

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

(18) $\int x^5 \sqrt[3]{1+x^3} \, dx$

(19) $\int \frac{e^x}{2+e^x}dx$

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

(20) $\int \frac{\cos x - \sin x}{\sin x + \cos x}dx$

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

(21) $\int \sin^2 x dx$

(27) $\int \sin^3 x \cos^2 x dx$

(22) $\int \cos^2 x dx$

(28) $\int \sin^3 x \cos^4 x dx$

(23) $\int \tan^2 x dx$

(29) $\int \sin^7 x \cos^3 x dx$

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

(30) $\int \sec x dx$