ZESTAW ZADAŃ V

Zadanie 1 Oblicz całki nieoznaczone przez podstawienie:

(a)
$$\int e^{-3x} dx$$
, (b) $\int \sqrt{3x+4} dx$, (c) $\int x(3x^2+1)^5 dx$, (d) $\int x^2 \sin(1-x^3) dx$, (e) $\int \frac{dx}{x \ln^2 x}$,

(f)
$$\int \frac{\cos x dx}{1+\sin^2 x}$$
, (g) $\int \sin^3 x dx$, (h) $\int \frac{e^{\frac{1}{x}} dx}{x^2}$, (i) $\int \frac{e^x dx}{\sqrt{1-e^{2x}}}$,

(a)
$$\int e^{-6x} dx$$
, (b) $\int \sqrt{3}x + 4dx$, (c) $\int x(3x^2 + 1)^6 dx$, (d) $\int x^2 \sin(1+x) dx$, (e) $\int \frac{\cos x dx}{1+\sin^2 x}$, (g) $\int \sin^3 x dx$, (h) $\int \frac{e^{\frac{1}{x}} dx}{x^2}$, (i) $\int \frac{e^x dx}{\sqrt{1-e^{2x}}}$, (j) $\int \cos^2 x dx$, (k) $\int \frac{\arcsin^3 x dx}{\sqrt{1-x^2}}$, (l) $\int (x+2)\sqrt{x-1} dx$, (m) $\int \frac{x^2 dx}{x^6+1}$, (n) $\int \frac{dx}{\sqrt{x}\sqrt{1-x}}$, (o) $\int \sqrt{4-x^2} dx$.

(n)
$$\int \frac{dx}{\sqrt{x}\sqrt{1-x}}$$
, (o) $\int \sqrt{4-x^2}dx$.